

Project Name: RSL1501

Lab Number: L1525899

Project Number: RSL1501

Report Date: 10/16/15

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 10/14/15 13:04  
 Analyst: RC

Extraction Method: EPA 3546  
 Extraction Date: 10/14/15 00:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG830583-1					
Acenaphthene	ND		ug/kg	130	34.
Fluoranthene	ND		ug/kg	98	30.
Benzo(a)anthracene	ND		ug/kg	98	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	75		18-120



# **Lab Control Sample Analysis** **Batch Quality Control**

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1525899

Report Date: 10/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG830583-2 WG830583-3								
Acenaphthene	64		60		31-137	6		50
Benzidine	27		54		10-66	67	Q	50
n-Nitrosodimethylamine	49		48		22-100	2		50
1,2,4-Trichlorobenzene	63		60		38-107	5		50
Hexachlorobenzene	69		66		40-140	4		50
Bis(2-chloroethyl)ether	58		55		40-140	5		50
2-Chloronaphthalene	63		61		40-140	3		50
1,2-Dichlorobenzene	59		56		40-140	5		50
1,3-Dichlorobenzene	58		55		40-140	5		50
1,4-Dichlorobenzene	59		56		28-104	5		50
3,3'-Dichlorobenzidine	48		55		40-140	14		50
2,4-Dinitrotoluene	71		68		28-89	4		50
2,6-Dinitrotoluene	66		64		40-140	3		50
Fluoranthene	64		62		40-140	3		50
4-Chlorophenyl phenyl ether	66		63		40-140	5		50
4-Bromophenyl phenyl ether	69		66		40-140	4		50
Azobenzene	61		59		40-140	3		50
Bis(2-chloroisopropyl)ether	55		52		40-140	6		50
Bis(2-chloroethoxy)methane	60		58		40-117	3		50
Hexachlorobutadiene	66		62		40-140	6		50
Hexachlorocyclopentadiene	92		83		40-140	10		50



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1525899

Report Date: 10/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG830583-2 WG830583-3								
Hexachloroethane	60		57		40-140	5		50
Isophorone	60		58		40-140	3		50
Naphthalene	62		58		40-140	7		50
Nitrobenzene	63		60		40-140	5		50
NitrosoDiPhenylAmine(NDPA)/DPA	66		63		36-157	5		50
n-Nitrosodi-n-propylamine	58		56		32-121	4		50
Bis(2-Ethylhexyl)phthalate	71		68		40-140	4		50
Butyl benzyl phthalate	70		68		40-140	3		50
Di-n-butylphthalate	68		65		40-140	5		50
Di-n-octylphthalate	73		70		40-140	4		50
Diethyl phthalate	64		62		40-140	3		50
Dimethyl phthalate	65		63		40-140	3		50
Benzo(a)anthracene	65		63		40-140	3		50
Benzo(a)pyrene	66		63		40-140	5		50
Benzo(b)fluoranthene	66		62		40-140	6		50
Benzo(k)fluoranthene	67		62		40-140	8		50
Chrysene	64		61		40-140	5		50
Acenaphthylene	63		61		40-140	3		50
Anthracene	66		64		40-140	3		50
Benzo(ghi)perylene	66		62		40-140	6		50
Fluorene	64		61		40-140	5		50



# **Lab Control Sample Analysis** Batch Quality Control

Project Name: RSL1501

Lab Number: L1525899

Project Number: RSL1501

Report Date: 10/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG830583-2 WG830583-3								
Phenanthrene	64		61		40-140	5		50
Dibenzo(a,h)anthracene	70		66		40-140	6		50
Indeno(1,2,3-cd)Pyrene	69		63		40-140	9		50
Pyrene	64		61		35-142	5		50
Biphenyl	65		61		54-104	6		50
Aniline	30	Q	38	Q	40-140	24		50
4-Chloroaniline	48		61		40-140	24		50
2-Nitroaniline	71		68		47-134	4		50
3-Nitroaniline	54		61		26-129	12		50
4-Nitroaniline	64		65		41-125	2		50
Dibenzofuran	64		61		40-140	5		50
2-Methylnaphthalene	62		59		40-140	5		50
1,2,4,5-Tetrachlorobenzene	68		64		40-117	6		50
Acetophenone	64		60		14-144	6		50
2,4,6-Trichlorophenol	78		73		30-130	7		50
P-Chloro-M-Cresol	69		65		26-103	6		50
2-Chlorophenol	66		61		25-102	8		50
2,4-Dichlorophenol	72		69		30-130	4		50
2,4-Dimethylphenol	69		65		30-130	6		50
2-Nitrophenol	70		67		30-130	4		50
4-Nitrophenol	66		60		11-114	10		50



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1525899

Report Date: 10/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG830583-2 WG830583-3								
2,4-Dinitrophenol	32		34		4-130	6		50
4,6-Dinitro-o-cresol	60		50		10-130	18		50
Pentachlorophenol	69		64		17-109	8		50
Phenol	58		54		26-90	7		50
2-Methylphenol	64		60		30-130.	6		50
3-Methylphenol/4-Methylphenol	65		61		30-130	6		50
2,4,5-Trichlorophenol	70		67		30-130	4		50
Benzoic Acid	28		34		10-66	19		50
Benzyl Alcohol	62		60		40-140	3		50
Carbazole	65		64		54-128	2		50
Benzaldehyde	54		57		40-140	5		50
Caprolactam	69		65		15-130	6		50
Atrazine	67		70		40-140	4		50
2,3,4,6-Tetrachlorophenol	74		70		40-140	6		50
Pyridine	24		30		10-93	22		50
Parathion, ethyl	97		91		40-140	6		50
1-Methylnaphthalene	62		58		26-130	7		50



# **Lab Control Sample Analysis** **Batch Quality Control**

Project Name: RSL1501

Lab Number: L1525899

Project Number: RSL1501

Report Date: 10/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG830583-2 WG830583-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		58		25-120
Phenol-d6	64		61		10-120
Nitrobenzene-d5	65		63		23-120
2-Fluorobiphenyl	64		62		30-120
2,4,6-Tribromophenol	81		75		10-136
4-Terphenyl-d14	65		62		18-120



## METALS



Project Name: RSL1501

Lab Number: L1525899

Project Number: RSL1501

Report Date: 10/16/15

## SAMPLE RESULTS

Lab ID: L1525899-01

Date Collected: 10/13/15 09:25

Client ID: EP001

Date Received: 10/13/15

Sample Location: ISLAND HILLS GOLF CLUB, SAYVIL

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	ND		mg/kg	0.42	0.08	1	10/14/15 04:34	10/14/15 18:16	EPA 3050B	1,6010C	JH
Barium, Total	1.9		mg/kg	0.42	0.12	1	10/14/15 04:34	10/14/15 18:16	EPA 3050B	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.21	0.04	1	10/14/15 04:34	10/14/15 18:16	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.42	0.03	1	10/14/15 04:34	10/14/15 18:16	EPA 3050B	1,6010C	JH
Chromium, Total	2.1		mg/kg	0.42	0.08	1	10/14/15 04:34	10/14/15 18:16	EPA 3050B	1,6010C	JH
Copper, Total	2.4		mg/kg	0.42	0.08	1	10/14/15 04:34	10/14/15 18:16	EPA 3050B	1,6010C	JH
Lead, Total	14		mg/kg	2.1	0.08	1	10/14/15 04:34	10/14/15 18:16	EPA 3050B	1,6010C	JH
Mercury, Total	0.04	J	mg/kg	0.07	0.02	1	10/14/15 09:33	10/14/15 18:28	EPA 7471B	1,7471B	DB
Nickel, Total	0.58	J	mg/kg	1.0	0.17	1	10/14/15 04:34	10/14/15 18:16	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.83	0.12	1	10/14/15 04:34	10/14/15 18:16	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.42	0.08	1	10/14/15 04:34	10/14/15 18:16	EPA 3050B	1,6010C	JH





Project Name: RSL1501

Lab Number: L1525899

Project Number: RSL1501

Report Date: 10/16/15

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG830608-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	10/14/15 04:34	10/14/15 16:05	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	10/14/15 04:34	10/14/15 16:05	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	10/14/15 04:34	10/14/15 16:05	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	10/14/15 04:34	10/14/15 16:05	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/14/15 04:34	10/14/15 16:05	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	10/14/15 04:34	10/14/15 16:05	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	10/14/15 04:34	10/14/15 16:05	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	10/14/15 04:34	10/14/15 16:05	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	10/14/15 04:34	10/14/15 16:05	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	10/14/15 04:34	10/14/15 16:05	1,6010C	JH

### Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG830609-1										
Mercury, Total	0.04	J	mg/kg	0.08	0.02	1	10/14/15 09:33	10/14/15 17:47	1,7471B	DB

### Prep Information

Digestion Method: EPA 7471B



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1525899

Report Date: 10/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG830608-2 SRM Lot Number: D088-540								
Arsenic, Total	96		-		79-121	-		
Barium, Total	88		-		83-117	-		
Beryllium, Total	92		-		83-117	-		
Cadmium, Total	90		-		83-117	-		
Chromium, Total	92		-		80-120	-		
Copper, Total	98		-		81-118	-		
Lead, Total	82		-		81-117	-		
Nickel, Total	92		-		83-117	-		
Selenium, Total	97		-		78-122	-		
Silver, Total	96		-		75-124	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG830609-2 SRM Lot Number: D088-540								
Mercury, Total	98		-		72-128	-		



# **Matrix Spike Analysis** **Batch Quality Control**

Project Name: RSL1501

Lab Number: L1525899

Project Number: RSL1501

Report Date: 10/16/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01    QC Batch ID: WG830608-4    QC Sample: L1525893-01    Client ID: MS Sample												
Arsenic, Total	1.9	12.5	14	97		-	-		75-125	-		20
Barium, Total	13.	208	200	90		-	-		75-125	-		20
Beryllium, Total	0.18J	5.21	4.7	90		-	-		75-125	-		20
Cadmium, Total	ND	5.31	4.5	85		-	-		75-125	-		20
Chromium, Total	6.2	20.8	24	85		-	-		75-125	-		20
Copper, Total	13.	26	36	88		-	-		75-125	-		20
Lead, Total	15.	53.1	58	81		-	-		75-125	-		20
Nickel, Total	6.0	52.1	47	79		-	-		75-125	-		20
Selenium, Total	0.27J	12.5	12	96		-	-		75-125	-		20
Silver, Total	0.10J	31.2	31	99		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01    QC Batch ID: WG830609-4    QC Sample: L1525943-01    Client ID: MS Sample												
Mercury, Total	0.17	0.147	0.35	123	Q	-	-		80-120	-		20



# **Lab Duplicate Analysis** Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1525899

Report Date: 10/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG830608-3 QC Sample: L1525893-01 Client ID: DUP Sample						
Arsenic, Total	1.9	2.0	mg/kg	5		20
Barium, Total	13.	31	mg/kg	82	Q	20
Beryllium, Total	0.18J	0.10J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	6.2	6.1	mg/kg	2		20
Lead, Total	15.	12	mg/kg	22	Q	20
Nickel, Total	6.0	4.4	mg/kg	31	Q	20
Selenium, Total	0.27J	0.31J	mg/kg	NC		20
Silver, Total	0.10J	ND	mg/kg	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG830609-3 QC Sample: L1525943-01 Client ID: DUP Sample						
Mercury, Total	0.17	0.24	mg/kg	34	Q	20



# **INORGANICS & MISCELLANEOUS**



**Project Name:** RSL1501**Project Number:** RSL1501**Lab Number:** L1525899**Report Date:** 10/16/15**SAMPLE RESULTS****Lab ID:** L1525899-01**Client ID:** EP001**Sample Location:** ISLAND HILLS GOLF CLUB, SAYVIL**Matrix:** Soil**Date Collected:** 10/13/15 09:25**Date Received:** 10/13/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.4		%	0.100	NA	1	-	10/14/15 02:22	30,2540G	RT





**Lab Duplicate Analysis**  
Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1525899

Report Date: 10/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG830600-1 QC Sample: L1525899-01 Client ID: EP001						
Solids, Total	94.4	94.1	%	0		20



Project Name: RSL1501

Lab Number: L1525899

Project Number: RSL1501

Report Date: 10/16/15

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1525899-01A	Glass 120ml/4oz unpreserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1525899-01A9	Vial MeOH preserved split	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1525899-01B	Glass 250ml/8oz unpreserved	A	N/A	2.8	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)

\*Values in parentheses indicate holding time in days



**Project Name:** RSL1501  
**Project Number:** RSL1501

**Lab Number:** L1525899  
**Report Date:** 10/16/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers





**Project Name:** RSL1501  
**Project Number:** RSL1501

**Lab Number:** L1525899  
**Report Date:** 10/16/15

**Data Qualifiers**

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers





**Project Name:** RSL1501**Lab Number:** L1525899**Project Number:** RSL1501**Report Date:** 10/16/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





## Certification Information

---

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide) (soil), Methyl methacrylate (soil), Azobenzene.

**EPA 8270D:** Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

---

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.









## ANALYTICAL REPORT

Lab Number:	L1526189
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Bryan Devaux
Phone:	(631) 589-6353
Project Name:	RSL1501
Project Number:	RSL1501
Report Date:	10/19/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





**Project Name:** RSL1501  
**Project Number:** RSL1501

**Lab Number:** L1526189  
**Report Date:** 10/19/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1526189-01	EP002	SOIL	ISLAND HILL GOLF CLUB, SAYVILLE, NY	10/14/15 10:45	10/15/15
L1526189-02	EP003	SOIL	ISLAND HILL GOLF CLUB, SAYVILLE, NY	10/14/15 12:15	10/15/15
L1526189-03	EP004	SOIL	ISLAND HILL GOLF CLUB, SAYVILLE, NY	10/14/15 12:55	10/15/15



**Project Name:** RSL1501  
**Project Number:** RSL1501

**Lab Number:** L1526189  
**Report Date:** 10/19/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---



**Project Name:** RSL1501**Lab Number:** L1526189**Project Number:** RSL1501**Report Date:** 10/19/15**Case Narrative (continued)**

## Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

## Sample Receipt

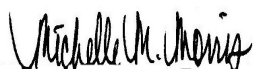
The analyses performed were specified by the client.

## Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 10/19/15



# ORGANICS



# **VOLATILES**



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-01  
 Client ID: EP002  
 Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/16/15 14:33  
 Analyst: MV  
 Percent Solids: 93%

Date Collected: 10/14/15 10:45  
 Date Received: 10/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.22	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	2.9		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.15	1
Bromoform	ND		ug/kg	4.3	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.13	1
1,2-Dichlorobenzene	62		ug/kg	5.4	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.14	1
1,4-Dichlorobenzene	1.4	J	ug/kg	5.4	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-01

Date Collected: 10/14/15 10:45

Client ID: EP002

Date Received: 10/15/15

Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/kg	2.2	0.21	1
o-Xylene	ND		ug/kg	2.2	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.20	1
Acetone	1.4	J	ug/kg	11	1.1	1
2-Butanone	ND		ug/kg	11	0.29	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.17	1
Bromochloromethane	ND		ug/kg	5.4	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.22	1
n-Butylbenzene	ND		ug/kg	1.1	0.12	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.4	0.14	1
o-Chlorotoluene	ND		ug/kg	5.4	0.17	1
p-Chlorotoluene	ND		ug/kg	5.4	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.24	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.13	1
Naphthalene	ND		ug/kg	5.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.16	1
1,2,4-Trichlorobenzene	1.8	J	ug/kg	5.4	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.15	1
Freon-113	ND		ug/kg	22	0.29	1
p-Diethylbenzene	ND		ug/kg	4.3	0.17	1
p-Ethyltoluene	ND		ug/kg	4.3	0.13	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.14	1



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

**SAMPLE RESULTS**

Lab ID: L1526189-01

Date Collected: 10/14/15 10:45

Client ID: EP002

Date Received: 10/15/15

Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-02  
 Client ID: EP003  
 Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/16/15 15:00  
 Analyst: MV  
 Percent Solids: 93%

Date Collected: 10/14/15 12:15  
 Date Received: 10/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.15	1
Bromoform	ND		ug/kg	4.3	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-02

Date Collected: 10/14/15 12:15

Client ID: EP003

Date Received: 10/15/15

Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/kg	2.2	0.21	1
o-Xylene	ND		ug/kg	2.2	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	ND		ug/kg	11	1.1	1
2-Butanone	ND		ug/kg	11	0.29	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
Bromochloromethane	ND		ug/kg	5.4	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.22	1
n-Butylbenzene	ND		ug/kg	1.1	0.12	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.4	0.15	1
o-Chlorotoluene	ND		ug/kg	5.4	0.17	1
p-Chlorotoluene	ND		ug/kg	5.4	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.25	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.13	1
Naphthalene	ND		ug/kg	5.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.15	1
Freon-113	ND		ug/kg	22	0.30	1
p-Diethylbenzene	ND		ug/kg	4.3	0.17	1
p-Ethyltoluene	ND		ug/kg	4.3	0.13	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.14	1



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

**SAMPLE RESULTS**

Lab ID: L1526189-02

Date Collected: 10/14/15 12:15

Client ID: EP003

Date Received: 10/15/15

Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-03  
 Client ID: EP004  
 Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/16/15 15:27  
 Analyst: MV  
 Percent Solids: 91%

Date Collected: 10/14/15 12:55  
 Date Received: 10/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.15	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-03

Date Collected: 10/14/15 12:55

Client ID: EP004

Date Received: 10/15/15

Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	ND		ug/kg	11	1.1	1
2-Butanone	ND		ug/kg	11	0.30	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
Bromochloromethane	ND		ug/kg	5.5	0.30	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.12	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.5	0.15	1
o-Chlorotoluene	ND		ug/kg	5.5	0.17	1
p-Chlorotoluene	ND		ug/kg	5.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.25	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.5	0.15	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.15	1
Freon-113	ND		ug/kg	22	0.30	1
p-Diethylbenzene	ND		ug/kg	4.4	0.17	1
p-Ethyltoluene	ND		ug/kg	4.4	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.14	1



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

**SAMPLE RESULTS**

Lab ID: L1526189-03

Date Collected: 10/14/15 12:55

Client ID: EP004

Date Received: 10/15/15

Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 10/16/15 09:37  
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG831564-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 10/16/15 09:37  
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG831564-3					
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 10/16/15 09:37  
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG831564-3					
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Freon-113	ND		ug/kg	20	0.27
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130



# Lab Control Sample Analysis

## Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1526189

Report Date: 10/19/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG831564-1 WG831564-2								
Methylene chloride	107		103		70-130	4		30
1,1-Dichloroethane	108		107		70-130	1		30
Chloroform	106		102		70-130	4		30
Carbon tetrachloride	109		108		70-130	1		30
1,2-Dichloropropane	107		108		70-130	1		30
Dibromochloromethane	99		97		70-130	2		30
2-Chloroethylvinyl ether	97		92		70-130	5		30
1,1,2-Trichloroethane	105		102		70-130	3		30
Tetrachloroethene	110		110		70-130	0		30
Chlorobenzene	105		105		70-130	0		30
Trichlorofluoromethane	112		107		70-139	5		30
1,2-Dichloroethane	102		98		70-130	4		30
1,1,1-Trichloroethane	107		106		70-130	1		30
Bromodichloromethane	105		102		70-130	3		30
trans-1,3-Dichloropropene	106		100		70-130	6		30
cis-1,3-Dichloropropene	108		106		70-130	2		30
1,1-Dichloropropene	112		112		70-130	0		30
Bromoform	99		92		70-130	7		30
1,1,2,2-Tetrachloroethane	102		96		70-130	6		30
Benzene	112		110		70-130	2		30
Toluene	106		104		70-130	2		30



# **Lab Control Sample Analysis** **Batch Quality Control**

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1526189

Report Date: 10/19/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG831564-1 WG831564-2								
Ethylbenzene	106		105		70-130	1		30
Chloromethane	110		106		52-130	4		30
Bromomethane	99		97		57-147	2		30
Vinyl chloride	116		111		67-130	4		30
Chloroethane	118		115		50-151	3		30
1,1-Dichloroethene	116		113		65-135	3		30
trans-1,2-Dichloroethene	112		111		70-130	1		30
Trichloroethene	113		111		70-130	2		30
1,2-Dichlorobenzene	104		102		70-130	2		30
1,3-Dichlorobenzene	107		104		70-130	3		30
1,4-Dichlorobenzene	105		103		70-130	2		30
Methyl tert butyl ether	104		101		66-130	3		30
p/m-Xylene	109		107		70-130	2		30
o-Xylene	106		107		70-130	1		30
cis-1,2-Dichloroethene	110		109		70-130	1		30
Dibromomethane	105		103		70-130	2		30
Styrene	106		106		70-130	0		30
Dichlorodifluoromethane	102		100		30-146	2		30
Acetone	104		94		54-140	10		30
Carbon disulfide	116		112		59-130	4		30
2-Butanone	103		98		70-130	5		30



# **Lab Control Sample Analysis** Batch Quality Control

Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG831564-1 WG831564-2								
Vinyl acetate	101		99		70-130	2		30
4-Methyl-2-pentanone	97		98		70-130	1		30
1,2,3-Trichloropropane	104		96		68-130	8		30
2-Hexanone	85		84		70-130	1		30
Bromochloromethane	110		107		70-130	3		30
2,2-Dichloropropane	112		111		70-130	1		30
1,2-Dibromoethane	101		101		70-130	0		30
1,3-Dichloropropane	103		100		69-130	3		30
1,1,1,2-Tetrachloroethane	101		100		70-130	1		30
Bromobenzene	105		100		70-130	5		30
n-Butylbenzene	111		107		70-130	4		30
sec-Butylbenzene	109		106		70-130	3		30
tert-Butylbenzene	108		104		70-130	4		30
o-Chlorotoluene	109		106		70-130	3		30
p-Chlorotoluene	106		103		70-130	3		30
1,2-Dibromo-3-chloropropane	95		93		68-130	2		30
Hexachlorobutadiene	107		106		67-130	1		30
Isopropylbenzene	108		105		70-130	3		30
p-Isopropyltoluene	109		105		70-130	4		30
Naphthalene	99		96		70-130	3		30
Acrylonitrile	108		101		70-130	7		30



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1526189

Report Date: 10/19/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG831564-1 WG831564-2								
Isopropyl Ether	106		104		66-130	2		30
tert-Butyl Alcohol	106		100		70-130	6		30
n-Propylbenzene	109		104		70-130	5		30
1,2,3-Trichlorobenzene	105		104		70-130	1		30
1,2,4-Trichlorobenzene	108		107		70-130	1		30
1,3,5-Trimethylbenzene	108		104		70-130	4		30
1,2,4-Trimethylbenzene	105		102		70-130	3		30
Methyl Acetate	103		95		51-146	8		30
Ethyl Acetate	103		99		70-130	4		30
Acrolein	99		94		70-130	5		30
Cyclohexane	118		114		59-142	3		30
1,4-Dioxane	110		108		65-136	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	116		114		50-139	2		30
p-Diethylbenzene	109		106		70-130	3		30
p-Ethyltoluene	110		104		70-130	6		30
1,2,4,5-Tetramethylbenzene	104		100		70-130	4		30
Tetrahydrofuran	106		101		66-130	5		30
Ethyl ether	110		106		67-130	4		30
trans-1,4-Dichloro-2-butene	99		96		70-130	3		30
Methyl cyclohexane	118		116		70-130	2		30
Ethyl-Tert-Butyl-Ether	106		102		70-130	4		30



# Lab Control Sample Analysis

## Batch Quality Control

Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG831564-1 WG831564-2								
Tertiary-Amyl Methyl Ether	105		104		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		91		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	99		95		70-130
Dibromofluoromethane	98		98		70-130



# SEMIVOLATILES



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-01  
 Client ID: EP002  
 Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/17/15 16:54  
 Analyst: PS  
 Percent Solids: 93%

Date Collected: 10/14/15 10:45  
 Date Received: 10/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 10/16/15 00:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	37.	1
Fluoranthene	ND		ug/kg	110	33.	1
Benzo(a)anthracene	ND		ug/kg	110	35.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	36.	1
Benzo(k)fluoranthene	ND		ug/kg	110	34.	1
Chrysene	ND		ug/kg	110	35.	1
Anthracene	ND		ug/kg	110	30.	1
Benzo(ghi)perylene	ND		ug/kg	140	37.	1
Fluorene	ND		ug/kg	180	51.	1
Phenanthrene	ND		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	34.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	39.	1
Pyrene	ND		ug/kg	110	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	71		18-120



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-02  
 Client ID: EP003  
 Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/17/15 17:19  
 Analyst: PS  
 Percent Solids: 93%

Date Collected: 10/14/15 12:15  
 Date Received: 10/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 10/16/15 00:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	36.	1
Fluoranthene	ND		ug/kg	110	32.	1
Benzo(a)anthracene	ND		ug/kg	110	35.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	36.	1
Benzo(k)fluoranthene	ND		ug/kg	110	34.	1
Chrysene	ND		ug/kg	110	35.	1
Anthracene	ND		ug/kg	110	29.	1
Benzo(ghi)perylene	ND		ug/kg	140	37.	1
Fluorene	ND		ug/kg	180	51.	1
Phenanthrene	ND		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	34.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	39.	1
Pyrene	ND		ug/kg	110	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	75		18-120



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-03  
 Client ID: EP004  
 Sample Location: ISLAND HILL GOLF CLUB, SAYVILLE, NY  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/17/15 17:44  
 Analyst: PS  
 Percent Solids: 91%

Date Collected: 10/14/15 12:55  
 Date Received: 10/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 10/16/15 00:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	37.	1
Fluoranthene	ND		ug/kg	110	33.	1
Benzo(a)anthracene	ND		ug/kg	110	35.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	36.	1
Benzo(k)fluoranthene	ND		ug/kg	110	34.	1
Chrysene	ND		ug/kg	110	35.	1
Anthracene	ND		ug/kg	110	30.	1
Benzo(ghi)perylene	ND		ug/kg	140	37.	1
Fluorene	ND		ug/kg	180	51.	1
Phenanthrene	ND		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	35.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	40.	1
Pyrene	ND		ug/kg	110	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	74		18-120



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 10/17/15 11:50  
 Analyst: PS

Extraction Method: EPA 3546  
 Extraction Date: 10/16/15 00:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG831350-1					
Acenaphthene	ND		ug/kg	130	34.
Fluoranthene	ND		ug/kg	99	30.
Benzo(a)anthracene	ND		ug/kg	99	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Anthracene	ND		ug/kg	99	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	77		18-120



# **Lab Control Sample Analysis** **Batch Quality Control**

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1526189

Report Date: 10/19/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG831350-2 WG831350-3								
Acenaphthene	55		69		31-137	23		50
Benzidine	29		27		10-66	7		50
n-Nitrosodimethylamine	64		78		22-100	20		50
1,2,4-Trichlorobenzene	58		70		38-107	19		50
Hexachlorobenzene	62		79		40-140	24		50
Bis(2-chloroethyl)ether	55		65		40-140	17		50
2-Chloronaphthalene	60		75		40-140	22		50
1,2-Dichlorobenzene	54		65		40-140	18		50
1,3-Dichlorobenzene	53		62		40-140	16		50
1,4-Dichlorobenzene	53		64		28-104	19		50
3,3'-Dichlorobenzidine	52		64		40-140	21		50
2,4-Dinitrotoluene	56		74		28-89	28		50
2,6-Dinitrotoluene	62		76		40-140	20		50
Fluoranthene	62		79		40-140	24		50
4-Chlorophenyl phenyl ether	56		72		40-140	25		50
4-Bromophenyl phenyl ether	64		79		40-140	21		50
Azobenzene	62		78		40-140	23		50
Bis(2-chloroisopropyl)ether	54		67		40-140	21		50
Bis(2-chloroethoxy)methane	56		69		40-117	21		50
Hexachlorobutadiene	58		70		40-140	19		50
Hexachlorocyclopentadiene	40		50		40-140	22		50



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1526189

Report Date: 10/19/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG831350-2 WG831350-3								
Hexachloroethane	55		68		40-140	21		50
Isophorone	61		75		40-140	21		50
Naphthalene	54		66		40-140	20		50
Nitrobenzene	60		72		40-140	18		50
NitrosoDiPhenylAmine(NDPA)/DPA	58		74		36-157	24		50
n-Nitrosodi-n-propylamine	62		75		32-121	19		50
Bis(2-Ethylhexyl)phthalate	55		168	Q	40-140	101	Q	50
Butyl benzyl phthalate	60		76		40-140	24		50
Di-n-butylphthalate	56		72		40-140	25		50
Di-n-octylphthalate	54		70		40-140	26		50
Diethyl phthalate	59		75		40-140	24		50
Dimethyl phthalate	54		70		40-140	26		50
Benzo(a)anthracene	56		72		40-140	25		50
Benzo(a)pyrene	59		76		40-140	25		50
Benzo(b)fluoranthene	61		72		40-140	17		50
Benzo(k)fluoranthene	58		76		40-140	27		50
Chrysene	58		72		40-140	22		50
Acenaphthylene	57		72		40-140	23		50
Anthracene	57		72		40-140	23		50
Benzo(ghi)perylene	57		76		40-140	29		50
Fluorene	57		72		40-140	23		50



# **Lab Control Sample Analysis** **Batch Quality Control**

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1526189

Report Date: 10/19/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG831350-2 WG831350-3								
Phenanthrene	57		72		40-140	23		50
Dibenzo(a,h)anthracene	57		75		40-140	27		50
Indeno(1,2,3-cd)Pyrene	56		73		40-140	26		50
Pyrene	61		78		35-142	24		50
Biphenyl	58		74		54-104	24		50
Aniline	36	Q	39	Q	40-140	8		50
4-Chloroaniline	65		75		40-140	14		50
2-Nitroaniline	57		70		47-134	20		50
3-Nitroaniline	51		61		26-129	18		50
4-Nitroaniline	55		66		41-125	18		50
Dibenzofuran	56		70		40-140	22		50
2-Methylnaphthalene	56		70		40-140	22		50
1,2,4,5-Tetrachlorobenzene	60		74		40-117	21		50
Acetophenone	59		74		14-144	23		50
2,4,6-Trichlorophenol	59		77		30-130	26		50
P-Chloro-M-Cresol	61		78		26-103	24		50
2-Chlorophenol	57		70		25-102	20		50
2,4-Dichlorophenol	58		70		30-130	19		50
2,4-Dimethylphenol	60		75		30-130	22		50
2-Nitrophenol	54		72		30-130	29		50
4-Nitrophenol	69		89		11-114	25		50



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1526189

Report Date: 10/19/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG831350-2 WG831350-3								
2,4-Dinitrophenol	13		12		4-130	8		50
4,6-Dinitro-o-cresol	36		39		10-130	8		50
Pentachlorophenol	42		50		17-109	17		50
Phenol	51		65		26-90	24		50
2-Methylphenol	58		73		30-130.	23		50
3-Methylphenol/4-Methylphenol	59		70		30-130	17		50
2,4,5-Trichlorophenol	61		77		30-130	23		50
Benzoic Acid	12		11		10-66	9		50
Benzyl Alcohol	62		76		40-140	20		50
Carbazole	61		76		54-128	22		50
Benzaldehyde	64		73		40-140	13		50
Caprolactam	60		74		15-130	21		50
Atrazine	65		81		40-140	22		50
2,3,4,6-Tetrachlorophenol	57		75		40-140	27		50
Pyridine	39		45		10-93	14		50
Parathion, ethyl	66		80		40-140	19		50
1-Methylnaphthalene	68		82		26-130	19		50



# **Lab Control Sample Analysis** **Batch Quality Control**

Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
------------------	--------------------------	-------------	---------------------------	-------------	-----------------------------	------------	-------------	-----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG831350-2 WG831350-3

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
2-Fluorophenol	55		67		25-120
Phenol-d6	57		69		10-120
Nitrobenzene-d5	61		74		23-120
2-Fluorobiphenyl	61		74		30-120
2,4,6-Tribromophenol	62		74		10-136
4-Terphenyl-d14	62		79		18-120



## METALS



Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-01

Date Collected: 10/14/15 10:45

Client ID: EP002

Date Received: 10/15/15

Sample Location: ISLAND HILL GOLF CLUB, SAYVILL

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.36	J	mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 20:43	EPA 3050B	1,6010C	JH
Barium, Total	2.1		mg/kg	0.40	0.12	1	10/16/15 07:33	10/16/15 20:43	EPA 3050B	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	10/16/15 07:33	10/16/15 20:43	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	10/16/15 07:33	10/16/15 20:43	EPA 3050B	1,6010C	JH
Chromium, Total	1.8		mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 20:43	EPA 3050B	1,6010C	JH
Copper, Total	1.9		mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 20:43	EPA 3050B	1,6010C	JH
Lead, Total	3.3		mg/kg	2.0	0.08	1	10/16/15 07:33	10/16/15 20:43	EPA 3050B	1,6010C	JH
Mercury, Total	0.09		mg/kg	0.07	0.02	1	10/16/15 09:02	10/16/15 19:12	EPA 7471B	1,7471B	DB
Nickel, Total	0.53	J	mg/kg	1.0	0.16	1	10/16/15 07:33	10/16/15 20:43	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.81	0.12	1	10/16/15 07:33	10/16/15 20:43	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 20:43	EPA 3050B	1,6010C	JH





Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-02

Date Collected: 10/14/15 12:15

Client ID: EP003

Date Received: 10/15/15

Sample Location: ISLAND HILL GOLF CLUB, SAYVILL

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.12	J	mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 22:36	EPA 3050B	1,6010C	JH
Barium, Total	1.4		mg/kg	0.40	0.12	1	10/16/15 07:33	10/16/15 22:36	EPA 3050B	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	10/16/15 07:33	10/16/15 22:36	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	10/16/15 07:33	10/16/15 22:36	EPA 3050B	1,6010C	JH
Chromium, Total	1.3		mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 22:36	EPA 3050B	1,6010C	JH
Copper, Total	1.0		mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 22:36	EPA 3050B	1,6010C	JH
Lead, Total	2.2		mg/kg	2.0	0.08	1	10/16/15 07:33	10/16/15 22:36	EPA 3050B	1,6010C	JH
Mercury, Total	0.05	J	mg/kg	0.07	0.01	1	10/16/15 09:02	10/16/15 19:14	EPA 7471B	1,7471B	DB
Nickel, Total	0.40	J	mg/kg	1.0	0.16	1	10/16/15 07:33	10/16/15 22:36	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	10/16/15 07:33	10/16/15 22:36	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 22:36	EPA 3050B	1,6010C	JH





Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## SAMPLE RESULTS

Lab ID: L1526189-03

Date Collected: 10/14/15 12:55

Client ID: EP004

Date Received: 10/15/15

Sample Location: ISLAND HILL GOLF CLUB, SAYVILL

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.13	J	mg/kg	0.42	0.09	1	10/16/15 07:33	10/16/15 22:59	EPA 3050B	1,6010C	JH
Barium, Total	2.7		mg/kg	0.42	0.13	1	10/16/15 07:33	10/16/15 22:59	EPA 3050B	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.21	0.04	1	10/16/15 07:33	10/16/15 22:59	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.42	0.03	1	10/16/15 07:33	10/16/15 22:59	EPA 3050B	1,6010C	JH
Chromium, Total	1.6		mg/kg	0.42	0.09	1	10/16/15 07:33	10/16/15 22:59	EPA 3050B	1,6010C	JH
Copper, Total	1.4		mg/kg	0.42	0.09	1	10/16/15 07:33	10/16/15 22:59	EPA 3050B	1,6010C	JH
Lead, Total	1.7	J	mg/kg	2.1	0.09	1	10/16/15 07:33	10/16/15 22:59	EPA 3050B	1,6010C	JH
Mercury, Total	0.05	J	mg/kg	0.07	0.02	1	10/16/15 09:02	10/16/15 19:16	EPA 7471B	1,7471B	DB
Nickel, Total	0.61	J	mg/kg	1.1	0.17	1	10/16/15 07:33	10/16/15 22:59	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.85	0.13	1	10/16/15 07:33	10/16/15 22:59	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.42	0.09	1	10/16/15 07:33	10/16/15 22:59	EPA 3050B	1,6010C	JH





Project Name: RSL1501

Lab Number: L1526189

Project Number: RSL1501

Report Date: 10/19/15

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG831394-1										
Mercury, Total	0.04	J	mg/kg	0.08	0.02	1	10/16/15 09:02	10/16/15 18:35	1,7471B	DB

### Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG831421-1										
Arsenic, Total	0.09	J	mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 19:38	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	10/16/15 07:33	10/16/15 19:38	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	10/16/15 07:33	10/16/15 19:38	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	10/16/15 07:33	10/16/15 19:38	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 19:38	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 19:38	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	10/16/15 07:33	10/16/15 19:38	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	10/16/15 07:33	10/16/15 19:38	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	10/16/15 07:33	10/16/15 19:38	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	10/16/15 07:33	10/16/15 19:38	1,6010C	JH

### Prep Information

Digestion Method: EPA 3050B



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1526189

Report Date: 10/19/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG831394-2 SRM Lot Number: D088-540								
Mercury, Total	107		-		72-128	-		
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG831421-2 SRM Lot Number: D088-540								
Arsenic, Total	96		-		79-121	-		
Barium, Total	88		-		83-117	-		
Beryllium, Total	86		-		83-117	-		
Cadmium, Total	89		-		83-117	-		
Chromium, Total	83		-		80-120	-		
Copper, Total	82		-		81-118	-		
Lead, Total	82		-		81-117	-		
Nickel, Total	95		-		83-117	-		
Selenium, Total	91		-		78-122	-		
Silver, Total	88		-		75-124	-		



# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** RSL1501  
**Project Number:** RSL1501

**Lab Number:** L1526189  
**Report Date:** 10/19/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG831394-4 QC Sample: L1526074-02 Client ID: MS Sample												
Mercury, Total	0.07J	0.19	0.28	147	Q	-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG831421-4 QC Sample: L1526250-08 Client ID: MS Sample												
Arsenic, Total	2.0	10.5	12	95		-	-		75-125	-		20
Barium, Total	42.	175	190	85		-	-		75-125	-		20
Beryllium, Total	0.16J	4.37	3.7	85		-	-		75-125	-		20
Cadmium, Total	ND	4.45	3.8	85		-	-		75-125	-		20
Chromium, Total	6.3	17.5	21	84		-	-		75-125	-		20
Copper, Total	9.1	21.8	28	86		-	-		75-125	-		20
Lead, Total	5.4	44.5	41	80		-	-		75-125	-		20
Nickel, Total	6.0	43.7	39	76		-	-		75-125	-		20
Selenium, Total	0.37J	10.5	10	95		-	-		75-125	-		20
Silver, Total	ND	26.2	24	92		-	-		75-125	-		20



# **Lab Duplicate Analysis** Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1526189

Report Date: 10/19/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG831394-3 QC Sample: L1526074-02 Client ID: DUP Sample						
Mercury, Total	0.07J	0.07J	mg/kg	NC		20
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG831421-3 QC Sample: L1526250-08 Client ID: DUP Sample						
Arsenic, Total	2.0	2.0	mg/kg	0		20
Barium, Total	42.	34	mg/kg	21	Q	20
Beryllium, Total	0.16J	0.16J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	6.3	6.2	mg/kg	2		20
Copper, Total	9.1	8.6	mg/kg	6		20
Lead, Total	5.4	5.4	mg/kg	0		20
Nickel, Total	6.0	6.0	mg/kg	0		20
Selenium, Total	0.37J	0.40J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20



# **INORGANICS & MISCELLANEOUS**



**Project Name:** RSL1501**Project Number:** RSL1501**Lab Number:** L1526189**Report Date:** 10/19/15**SAMPLE RESULTS****Lab ID:** L1526189-01**Client ID:** EP002**Sample Location:** ISLAND HILL GOLF CLUB, SAYVILL**Matrix:** Soil**Date Collected:** 10/14/15 10:45**Date Received:** 10/15/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.0		%	0.100	NA	1	-	10/16/15 02:07	30,2540G	RT





**Project Name:** RSL1501**Project Number:** RSL1501**Lab Number:** L1526189**Report Date:** 10/19/15**SAMPLE RESULTS****Lab ID:** L1526189-02**Client ID:** EP003**Sample Location:** ISLAND HILL GOLF CLUB, SAYVILL**Matrix:** Soil**Date Collected:** 10/14/15 12:15**Date Received:** 10/15/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.6		%	0.100	NA	1	-	10/16/15 02:07	30,2540G	RT





**Project Name:** RSL1501**Project Number:** RSL1501**Lab Number:** L1526189**Report Date:** 10/19/15**SAMPLE RESULTS****Lab ID:** L1526189-03**Client ID:** EP004**Sample Location:** ISLAND HILL GOLF CLUB, SAYVILL**Matrix:** Soil**Date Collected:** 10/14/15 12:55**Date Received:** 10/15/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	10/16/15 02:07	30,2540G	RT





**Lab Duplicate Analysis**  
Batch Quality Control

Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1526189

Report Date: 10/19/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG831373-1 QC Sample: L1526158-01 Client ID: DUP Sample						
Solids, Total	89.8	89.3	%	1		20



Project Name: RSL1501

Project Number: RSL1501

Lab Number: L1526189

Report Date: 10/19/15

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1526189-01A	Glass 120ml/4oz unpreserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1526189-01B	Glass 250ml/8oz unpreserved	A	N/A	4.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1526189-02A	Glass 120ml/4oz unpreserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1526189-02B	Glass 250ml/8oz unpreserved	A	N/A	4.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1526189-03A	Glass 120ml/4oz unpreserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1526189-03B	Glass 250ml/8oz unpreserved	A	N/A	4.1	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)

\*Values in parentheses indicate holding time in days



**Project Name:** RSL1501  
**Project Number:** RSL1501

**Lab Number:** L1526189  
**Report Date:** 10/19/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers





**Project Name:** RSL1501  
**Project Number:** RSL1501

**Lab Number:** L1526189  
**Report Date:** 10/19/15

**Data Qualifiers**

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.



**Project Name:** RSL1501**Lab Number:** L1526189**Project Number:** RSL1501**Report Date:** 10/19/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





## Certification Information

---

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide) (soil), Methyl methacrylate (soil), Azobenzene.

**EPA 8270D:** Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

---

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

### Drinking Water

**EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

**EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.







## APPENDIX C

### Waste Manifests





972 Nicolls Road  
Deer Park, NY 11729  
Office: 631.586.0002  
Fax: 631.586.0530

New York State DEC Licensed Transfer Facility  
BIC # 1272

Waste Manifest Number

16966

## Non Hazardous Waste Manifest

Truck # 7006

w/o # 339784 PERMIT # 1-4720-00317/00001

### Generator of Waste Material

1. Customer Name: Island Hills Golf Club 2. Phone Number: 631.414.8407  
3. Street Address: 458 Lakeside Ave 4. City/State/Zip: Sayville, NY 11782

### ALL WASTES ARE SUBJECT TO THE TERMS AND CONDITIONS CONTAINED IN THE NYS DEC OPERATING PERMIT

The undersigned, being duly authorized, does hereby certify to the best of their knowledge the accuracy of the source and type of waste identified and subject to this manifest.

**NOTE: GENERATOR SIGNATURE REQUIRED**

5. Signature of Generator or Agent: Amanda J Kacaniggello Date: 10.13.15  
Print Name:

### Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)	QUANTITY	NYS DEC N-CODE
<u>Sledge</u>	<u>Cubic Yards</u> Gallons Tons	<u>Apr 10 yds</u>	<u>2A.263</u>

Others and special handling instructions, if any:

### Transporter of Waste

**NOTE: TRANSPORTER SIGNATURE REQUIRED**

1. Company Name: Clear Brook 2. Address: 972 Nicolls Rd, Deer Park  
3. Phone: 631.586.0002 4. Pump Out Date: 10.13.15  
5. Vehicle License No: 25106 MD 6. NYS DEC Permit No: 1-4720-00317/00001

I certify that to the best of my knowledge the waste that is being delivered into ClearBrook transfer facility located at 972 Nicolls Road, Deer Park, NY 11729 contains no hazardous waste.

Print Name: Nick Viola Signature: Nick Viola Date: 10.13.15

### Acceptance by ClearBrook

The above transporter delivered the described waste to the Transfer Facility and it was accepted.

Transfer Date: 10/13/15 Time: \_\_\_\_\_ Sample ID# \_\_\_\_\_

Signature of Authorized Agent: Nancy Weger Print Name: Nancy Weger

WHITE: TRANSFER FACILITY YELLOW: TRANSPORTER PINK: GENERATOR GOLD: ACCOUNTING



Clearbrook TEI Company  
972 Nicolls Road  
Deer Park, NY 11729

Ticket: 1078457  
Date: 10/13/2015  
Time: 12:17:54 - 12:44:48

Gross: 63900 lb In Scale 1  
Tare: 53140 lb Out Scale 1  
Net: 10760 lb

Truck: 7006  
Customer: Clearbrook  
972 NICOLLS RD  
DEER PARK, NY 11729-3806

License: 25106MD  
Generator: ISLAND HILLS GOLF CLUB  
458 LAKELAND AVE  
SAYVILLE, NY

Comment:

Manifest: 16966

Origin	Materials & Services	Quantity Unit
--------	----------------------	---------------

7/SUFFOLK	4DISPCS/Disposal of Contamina	5.38 Ton
-----------	-------------------------------	----------

Driver: \_\_\_\_\_

Deputy Weighmaster: \_\_\_\_\_

  
NANCY WAGNER





972 Nicolls Road  
Deer Park, NY 11729  
Office: 631.586.0002  
Fax: 631.586.0530

New York State DEC Licensed Transfer Facility  
BIC # 1272

15-508  
15-529

Waste Manifest Number

17220

## Non Hazardous Waste Manifest

PERMIT # 1-4720-00317/00001

Truck # 6408  
WO # 339805

### Generator of Waste Material

1. Customer Name: Island Hills Golf Club 2. Phone Number: \_\_\_\_\_  
3. Street Address: 458 Lakeland Ave 4. City/State/Zip: Sayville NY 11782

### ALL WASTES ARE SUBJECT TO THE TERMS AND CONDITIONS CONTAINED IN THE NYS DEC OPERATING PERMIT

The undersigned, being duly authorized, does hereby certify to the best of their knowledge the accuracy of the source and type of waste identified and subject to this manifest.

**NOTE: GENERATOR SIGNATURE REQUIRED**

5. Signature of Generator or Agent: Armando Racine (Printer) Date: 10/14/15  
Print Name: \_\_\_\_\_

### Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)	QUANTITY	NYS DEC N-CODE
<u>Sludge/Sand</u>	<u>Cubic Yards</u> Gallons Tons	<u>4</u>	

Others and special handling instructions, if any:

### Transporter of Waste

**NOTE: TRANSPORTER SIGNATURE REQUIRED**

1. Company Name: ClearBrook 2. Address: 972 Nicolls Rd Deer Park NY  
3. Phone: 631 586 0002 4. Pump Out Date: 10/14/15  
5. Vehicle License No: 63321MC 6. NYS DEC Permit No: 2A-263

I certify that to the best of my knowledge the waste that is being delivered into ClearBrook transfer facility located at 972 Nicolls Road, Deer Park, NY 11729 contains no hazardous waste.

Print Name: Chris Dole Signature: [Signature] Date: 10/14/15

### Acceptance by ClearBrook

The above transporter delivered the described waste to the Transfer Facility and it was accepted.

Transfer Date: 10/14/15 Time: \_\_\_\_\_ Sample ID# \_\_\_\_\_

Signature of Authorized Agent: [Signature] Print Name: Nancy Weger

WHITE: TRANSFER FACILITY YELLOW: TRANSPORTER PINK: GENERATOR GOLD: ACCOUNTING



Clearbrook T&I Company  
972 Nicolls Road  
Deer Park, NY 11729

Ticket: 1078557  
Date: 10/14/2015  
Time: 14:03:55 - 15:05:06

Gross: 59440 lb In Scale 1  
Tare: 52320 lb Out Scale 1  
Net: 7120 lb

Truck: 6408  
Customer: Clearbrook  
972 NICOLLS RD  
DEER PARK, NY 11729-3806

License: 63321MC  
Generator: ISLAND HILLS GOLF CLUB  
458 LAKELAND AVE  
SAYVILLE, NY

Comment:

Manifest: 17220

Origin	Materials & Services	Quantity Unit
--------	----------------------	---------------

7/SUFFOLK	4DISPCS/Disposal of Contamina	3.56 Ton
-----------	-------------------------------	----------

Driver: \_\_\_\_\_

Deputy Weighmaster: \_\_\_\_\_

  
NANCY WAGNER





972 Nicolls Road  
Deer Park, NY 11729  
Office: 631.586.0002  
Fax: 631.586.0530

New York State DEC Licensed Transfer Facility  
BIC # 1272

Waste Manifest Number

17471

## Non Hazardous Waste Manifest

PERMIT # 1-4720-00317/00001

### Generator of Waste Material

1. Customer Name: Island Hills Golf Club 2. Phone Number: \_\_\_\_\_  
3. Street Address: 458 Lakeland Ave. 4. City/State/Zip: Sayville NY 11782

### ALL WASTES ARE SUBJECT TO THE TERMS AND CONDITIONS CONTAINED IN THE NYS DEC OPERATING PERMIT

The undersigned, being duly authorized, does hereby certify to the best of their knowledge the accuracy of the source and type of waste identified and subject to this manifest.

**NOTE: GENERATOR SIGNATURE REQUIRED**

5. Signature of Generator or Agent: Agent for Owner [Signature] Date: 10/6/15  
Print Name: \_\_\_\_\_

### Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)	QUANTITY	NYS DEC N-CODE
<u>non-haz Solids</u>	Cubic Yards <u>(X)</u> Gallons Tons	<u>12</u>	

Others and special handling instructions, if any:

### Transporter of Waste

**NOTE: TRANSPORTER SIGNATURE REQUIRED**

1. Company Name: ClearBrook 2. Address: 972 Nicolls Rd Deer Park  
3. Phone: 631 586 0002 4. Pump Out Date: 10/6/15  
5. Vehicle License No: 33158 MC 6. NYS DEC Permit No: 24 263

I certify that to the best of my knowledge the waste that is being delivered into ClearBrook transfer facility located at 972 Nicolls Road, Deer Park, NY 11729 contains no hazardous waste.

Print Name: [Signature] Signature: [Signature] Date: 10/6/15

### Acceptance by ClearBrook

The above transporter delivered the described waste to the Transfer Facility and if was accepted.

Transfer Date: \_\_\_\_\_ Time: \_\_\_\_\_ Sample ID# \_\_\_\_\_

Signature of Authorized Agent: \_\_\_\_\_ Print Name \_\_\_\_\_

WHITE: TRANSFER FACILITY

YELLOW: TRANSPORTER

PINK: GENERATOR

GOLD: ACCOUNTING



**110 Sand Company**136 Spagnoli Road  
Melville, NY 11747**Business Office:**  
170 Cabot Street  
West Babylon NY, 11704Ticket #: 282901  
Date: 10/6/2015 1:37 PM  
Phone: (631) 249-4108  
Fax: (631) 249-4126Customer: 19649  
TULLY ENVIRONMENTAL INC.  
DBA EVERGREEN RECYC  
FLUSHING NY, 11368Manifest #: 17471  
PO #:  
Job #Order Number: 2  
SLURRY- CLEARBROOK  
Tons: 0.000  
Loads: 366960 - CLEARBROOK#7003-15Y VA - 33156MB  
MTF - Michael Fritz License#602339  
110 Sand Co - Suffolk

Remarks:

Material	Location Address	Quantity	Price	Misc \$	Tax \$	Line Total \$
970 #SLURRY		15.000 CY				

Gross	Tare	Net	Time IN	Time OUT
35.12 Tn 70,240 Lb	22.20 Tn 44,400 lb	12.92 Tn 25,840 Lb	1:37 PM	1:37 PM

Driver







Waste Manifest Number

16706

972 Nicolls Road  
Deer Park, NY 11729  
Office: 631.586.0002  
Fax: 631.586.0530

New York State DEC Licensed Transfer Facility  
BIC # 1272

**Non Hazardous Waste Manifest**

PERMIT # 1-4720-00317/00001

**Generator of Waste Material**

1. Customer Name: Island Hills Golf Club 2. Phone Number: \_\_\_\_\_  
3. Street Address: 458 Lakehurst Ave. 4. City/State/Zip: Sayville NY 11782

**ALL WASTES ARE SUBJECT TO THE TERMS AND CONDITIONS  
CONTAINED IN THE NYS DEC OPERATING PERMIT**

The undersigned, being duly authorized, does hereby certify to the best of their knowledge the accuracy of the source and type of waste identified and subject to this manifest.

**NOTE: GENERATOR SIGNATURE REQUIRED**

5. Signature of Generator or Agent: [Signature] Date: 10/2/15  
Print Name: Agent for Owner

**Wastestream Identification: Circle/Fill Out All Boxes**

DESCRIPTION OF WASTE	UNIT (Circle One)	QUANTITY	NYS DEC N-CODE
<u>non-haz solids</u>	Cubic <u>Yards</u> Gallons Tons	<u>6</u>	

Others and special handling instructions, if any:

15528**Transporter of Waste****NOTE: TRANSPORTER SIGNATURE REQUIRED**

1. Company Name: clearbrook 2. Address: 972 nicolls rd Deer Park  
3. Phone: 631 586 0002 4. Pump Out Date: 10/2/15  
5. Vehicle License No: 33156 MB 6. NYS DEC Permit No: 2A 263

I certify that to the best of my knowledge the waste that is being delivered into ClearBrook transfer facility located at 972 Nicolls Road, Deer Park, NY 11729 contains no hazardous waste.

Print Name: Robert Ward Signature: [Signature] Date: 10/7/15

**Acceptance by ClearBrook**

The above transporter delivered the described waste to the Transfer Facility and it was accepted.

Transfer Date: 10/7/15 Time: \_\_\_\_\_ Sample ID# \_\_\_\_\_

Signature of Authorized Agent: Nancy Wager Print Name Nancy Wager

WHITE: TRANSFER FACILITY YELLOW: TRANSPORTER PINK: GENERATOR GOLD: ACCOUNTING

FORM 130 REV 2/12



Clearbrook TEI Company  
972 Nicolls Road  
Deer Park, NY 11729

Ticket: 1078093  
Date: 10/7/2015  
Time: 12:06:09 - 12:43:59

Gross: 57640 lb In Scale 1  
Tare: 47780 lb Out Scale 1  
Net: 9860 lb

Truck: 7003  
Customer: Clearbrook  
972 NICOLLS RD  
DEER PARK, NY 11729-3806

License: 33156MB  
Generator: ISLAND HILLS GOLF CLUB  
458 LAKE LAND AVE  
SAYVILLE, NY

Comment:

Manifest: 16706

Origin	Materials & Services	Quantity Unit
--------	----------------------	---------------

7/SUFFOLK	4DISPCS/Disposal of Contamina	4.93 Ton
-----------	-------------------------------	----------

Driver: \_\_\_\_\_

Deputy Weighmaster: \_\_\_\_\_

  
NANCY WAGNER



CLEAR FLO TECHNOLOGIES, INC.  
1110 A Rte. 109  
N. Lindenhurst, N.Y. 11757  
Tel: (631) 956-7600  
Fax: (631) 956-7020

MANIFEST NUMBER		
Part 1	Part 2	Part 3
		150118
Date of Pick-Up 10/6/15 (Use 2 Digit Numbers) Example 040103	Time of Pick-Up 6:50 (Military Time)	Chronological Number /Also Used as Sample # (Assigned at Clear Flo- Receiving Station)

## LIQUID WASTE DISCHARGE MANIFEST

### 1. WASTEWATER STREAM IDENTIFICATION (Sections 1A, 1B, & 1C must be completed by generator or hauler)

A. Volume:	Gallons: 4500	Wt. In:	Wt. Out:		
B. Type:	<input type="checkbox"/> Condensate Water	<input type="checkbox"/> Decant Grease	<input type="checkbox"/> Grease	<input type="checkbox"/> Industrial Rinse	<input type="checkbox"/> Leachate
	<input type="checkbox"/> Leachate Pool	<input type="checkbox"/> Pharmaceutical	<input type="checkbox"/> Septic/Septage	<input type="checkbox"/> Sludge	<input checked="" type="checkbox"/> Storm Water
	<input type="checkbox"/> STP Effluent	<input type="checkbox"/> Transfer Leachate	Other:		
C. Source	<input type="checkbox"/> Home/Apt.	<input checked="" type="checkbox"/> Office/Commercial	<input type="checkbox"/> Municipal	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other

Description of Other and special handling instructions, if any

### 2. GENERATOR OF WASTEWATER (Sections 2A, 2B, & 2C must be completed by generator or hauler)

A. Complete Name (print or type): Island Hills Golf Club B. Tel. No:

C. Complete Pickup Address: 458 Lakeland Ave, Sayville NY

ALL WASTEWATERS ARE SUBJECT TO THE TERMS AND  
CONDITIONS CONTAINED IN THE DISCHARGE PERMIT

The undersigned, being duly authorized, does hereby certify to the best of their knowledge to the accuracy of the source and type of wastewater identified and subject to this manifest. **SECTION D GENERATOR SIGNATURE REQUIRED**

D. Signature of Generator or Agent: *[Signature]*

Date: 10/6/15

### 3. HAULER OF LIQUID WASTE (Sections 3A, 3B, 3C, 3D and 3E must be completed by hauler)

A. Company name (print or type): Clear Brook

B. SCDPW Permit No.: 50M353

C. Vehicle License No.: 6331186

E. NYS DEC Permit No.: 21063

D. Pump Out Date: 10/6/15

The above described liquid waste was picked up and hauled by me to the disposal facility named below and was discharged. I certify under penalty of perjury that the foregoing is true and correct.

F. Signature of authorized agent and title: *[Signature]*

### 4. ACCEPTANCE BY CLEAR FLO TECHNOLOGIES, INC. (must be completed by disposer)

The above hauler delivered the described wastewater to the disposal facility and it was accepted.

Disposal Date: 10-6-15

Sample ID No.: 150118

Signature of authorized agent and title: *[Signature]*

PINK-GENERATOR YELLOW-TRANSPORTER WHITE DISPOSAL FACILITY GOLD-FILE



CLEAR FLO TECHNOLOGIES, INC.  
1110 A Rte. 109  
N. Lindenhurst, N.Y. 11757  
Tel: (631) 956-7600  
Fax: (631) 956-7020

MANIFEST NUMBER		
Part 1	Part 2	Part 3
		150201
Date of Pick-Up 10/7/15 (Use 2 Digit Numbers) Example 040103	Time of Pick-Up 6:49 (Military Time)	Chronological Number /Also Used as Sample # (Assigned at Clear Flo- Receiving Station)

## LIQUID WASTE DISCHARGE MANIFEST

### 1. WASTEWATER STREAM IDENTIFICATION (Sections 1A, 1B, & 1C must be completed by generator or hauler)

A. Volume:	Gallons: 4800	Wt. In:	Wt. Out:		
B. Type:	<input type="checkbox"/> Condensate Water	<input type="checkbox"/> Decant Grease	<input type="checkbox"/> Grease	<input type="checkbox"/> Industrial Rinse	<input type="checkbox"/> Leachate
	<input type="checkbox"/> Leachate Pool	<input type="checkbox"/> Pharmaceutical	<input checked="" type="checkbox"/> Septic/Septage	<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water
	<input type="checkbox"/> STP Effluent	<input type="checkbox"/> Transfer Leachate	Other:		
C. Source	<input type="checkbox"/> Home/Apt.	<input type="checkbox"/> Office/Commercial	<input type="checkbox"/> Municipal	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other

Description of Other and special handling instructions, if any

### 2. GENERATOR OF WASTEWATER (Sections 2A, 2B, & 2C must be completed by generator or hauler)

A. Complete Name (print or type): Island Hills Golf Club B. Tel. No:

C. Complete Pickup Address: 458 Lakehurst Ave, Sayville, NY

ALL WASTEWATERS ARE SUBJECT TO THE TERMS AND  
CONDITIONS CONTAINED IN THE DISCHARGE PERMIT

The undersigned, being duly authorized, does hereby certify to the best of their knowledge to the accuracy of the source and type of wastewater identified and subject to this manifest. **SECTION D GENERATOR SIGNATURE REQUIRED**

D. Signature of Generator or Agent: [Signature] Date: 10/7/15

### 3. HAULER OF LIQUID WASTE (Sections 3A, 3B, 3C, 3D and 3E must be completed by hauler)

A. Company name (print or type): Clear Brook  
B. SCDPW Permit No. 504353 C. Vehicle License No. 6334VC D. Pump Out Date: 10/7/15  
E. NYS DEC Permit No. 2A263

The above described liquid waste was picked up and hauled by me to the disposal facility named below and was discharged. I certify under penalty of perjury that the foregoing is true and correct.

F. Signature of authorized agent and title: [Signature]

### 4. ACCEPTANCE BY CLEAR FLO TECHNOLOGIES, INC. (must be completed by disposer)

The above hauler delivered the described wastewater to the disposal facility and it was accepted.

Disposal Date: 10-7-15 Sample ID No: 150201

Signature of authorized agent and title: [Signature]

PINK-GENERATOR YELLOW-TRANSPORTER WHITE DISPOSAL FACILITY GOLD-FILE



TRUCK 1705

WG #339875

CLEAR FLO TECHNOLOGIES, INC.

1110 A Rte. 109

N. Lindenhurst, N.Y. 11757

Tel: (631) 956-7600

Fax: (631) 956-7020

MANIFEST NUMBER		
Part 1	Part 2	Part 3
10/14/15	11:30	150675
Date of Pick-Up	Time of Pick-Up	Chronological Number /Also Used as Sample #
(Use 2 Digit Numbers) Example 040103	(Military Time)	(Assigned at Clear Flo- Receiving Station)

## LIQUID WASTE DISCHARGE MANIFEST

## 1. WASTEWATER STREAM IDENTIFICATION (Sections 1A, 1B, &amp; 1C must be completed by generator or hauler)

A. Volume:	Gallons: 4800	Wt. In:	Wt. Out:
B. Type:	<input type="checkbox"/> Condensate Water	<input type="checkbox"/> Decant Grease	<input type="checkbox"/> Grease
	<input type="checkbox"/> Leachate Pool	<input type="checkbox"/> Pharmaceutical	<input checked="" type="checkbox"/> Septic/Septage
	<input type="checkbox"/> STP Effluent	<input type="checkbox"/> Transfer Leachate	Other:
C. Source	<input type="checkbox"/> Home/Apt.	<input type="checkbox"/> Office/Commercial	<input type="checkbox"/> Municipal
		<input type="checkbox"/> Industrial	<input type="checkbox"/> Other

Description of Other and special handling instructions, if any

## 2. GENERATOR OF WASTEWATER (Sections 2A, 2B, &amp; 2C must be completed by generator or hauler)

A. Complete Name (print or type): Island Hills GOLF CLUB B. Tel. No:

C. Complete Pickup Address: 458 Lake Land Ave Bayville NY

ALL WASTEWATERS ARE SUBJECT TO THE TERMS AND  
CONDITIONS CONTAINED IN THE DISCHARGE PERMITThe undersigned, being duly authorized, does hereby certify to the best of their knowledge to the accuracy of the source and type of wastewater identified and subject to this manifest. SECTION D GENERATOR SIGNATURE  
REQUIRED

D. Signature of Generator or Agent: [Signature] Date: 10/14/15

## 3. HAULER OF LIQUID WASTE (Sections 3A, 3B, 3C, 3D and 3E must be completed by hauler)

A. Company name (print or type): CLEAR BROOK  
B. SCDPW Permit No. 500353-7 C. Vehicle License No. 63976 MC D. Pump Out Date: 10/14/15  
E. NYS DEC Permit No: 2A 263

The above described liquid waste was picked up and hauled by me to the disposal facility named below and was discharged. I certify under penalty of perjury that the foregoing is true and correct.

F. Signature of authorized agent and title: [Signature]

## 4. ACCEPTANCE BY CLEAR FLO TECHNOLOGIES, INC. (must be completed by disposer)

The above hauler delivered the described wastewater to the disposal facility and it was accepted.

Disposal Date: 10-14-15 Sample ID No: 150675

Signature of authorized agent and title: [Signature]

PINK-GENERATOR YELLOW-TRANSPORTER WHITE DISPOSAL FACILITY GOLD-FILE



wo # 339807  
TRUCK # 1705

CLEAR FLO TECHNOLOGIES, INC.  
1110 A Rte. 109  
N. Lindenhurst, N.Y. 11757  
Tel: (631) 956-7600  
Fax: (631) 956-7020

MANIFEST NUMBER		
Part 1	Part 2	Part 3
10-14-15	0700	150637
Date of Pick-Up	Time of Pick-Up	Chronological Number /Also Used as Sample #
(Use 2 Digit Numbers) Example 040103	(Military Time)	(Assigned at Clear Flo- Receiving Station)

### LIQUID WASTE DISCHARGE MANIFEST

#### 1. WASTEWATER STREAM IDENTIFICATION (Sections 1A, 1B, & 1C must be completed by generator or hauler)

A. Volume:	Gallons: 4800	Wt. In:	Wt. Out:
B. Type:	<input type="checkbox"/> Condensate Water	<input type="checkbox"/> Decant Grease	<input type="checkbox"/> Grease
	<input type="checkbox"/> Leachate Pool	<input type="checkbox"/> Pharmaceutical	<input type="checkbox"/> Industrial Rinse
	<input type="checkbox"/> STP Effluent	<input type="checkbox"/> Transfer Leachate	<input checked="" type="checkbox"/> Septic/Septage
		Other:	<input type="checkbox"/> Sludge
C. Source	<input type="checkbox"/> Home/Apt.	<input type="checkbox"/> Office/Commercial	<input type="checkbox"/> Municipal
		<input type="checkbox"/> Industrial	<input type="checkbox"/> Other

Description of Other and special handling instructions, if any

#### 2. GENERATOR OF WASTEWATER (Sections 2A, 2B, & 2C must be completed by generator or hauler)

A. Complete Name (print or type) ESSEX HILLS GOLF CLUB B. Tel. No: \_\_\_\_\_  
C. Complete Pickup Address: 458 Lakeford Ave Sewville NY 11782

#### ALL WASTEWATERS ARE SUBJECT TO THE TERMS AND CONDITIONS CONTAINED IN THE DISCHARGE PERMIT

The undersigned, being duly authorized, does hereby certify to the best of their knowledge to the accuracy of the source and type of wastewater identified and subject to this manifest. **SECTION D GENERATOR SIGNATURE REQUIRED**

D. Signature of Generator or Agent: Amber Traller (RWGC) Date: 10/14/15

#### 3. HAULER OF LIQUID WASTE (Sections 3A, 3B, 3C, 3D and 3E must be completed by hauler)

A. Company name (print or type): C. Long Brook  
B. SCDPW Permit No. SDM 353-7 C. Vehicle License No. 63476-NC D. Pump Out Date: 10/14/15  
E. NYS DEC Permit No.: 2A 763

The above described liquid waste was picked up and hauled by me to the disposal facility named below and was discharged. I certify under penalty of perjury that the foregoing is true and correct.

F. Signature of authorized agent and title: ada [signature]

#### 4. ACCEPTANCE BY CLEAR FLO TECHNOLOGIES, INC. (must be completed by disposer)

The above hauler delivered the described wastewater to the disposal facility and it was accepted.

Disposal Date: 10-14-15 Sample ID No.: 150637

Signature of authorized agent and title: [signature]

PINK-GENERATOR YELLOW-TRANSPORTER WHITE DISPOSAL FACILITY GOLD-FILE



# PARTNER



## PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

### **Island Hills Golf Course**

500 Lakeland Avenue  
Sayville, New York 11782

Report Date: September 25, 2017  
Partner Project No. 17-196398.1



Prepared for:

### **NewGables Capital**

477 Madison Avenue, 6<sup>th</sup> Floor  
New York, New York 10022



September 25, 2017

NewGables Capital  
477 Madison Ave, 6th Floor  
New York, NY 10022

Attention: Mr. Steven Fischler, Partner

Subject: Phase I Environmental Site Assessment  
Island Hills Golf Course  
500 Lakeland Avenue  
Sayville, New York 11782  
Partner Project No. 17-196398.1

Dear Mr. Fischler:

Partner Assessment Corporation, Inc. (Partner) is pleased to provide the results of the *Phase I Environmental Site Assessment* (Phase I ESA) report of the abovementioned address (the "subject property"). This assessment was performed in general conformance with the scope and limitations as detailed in the ASTM Practice E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

This assessment included a site reconnaissance as well as research and interviews with representatives of the public, property ownership, site manager, and regulatory agencies. An assessment was made, conclusions stated, and recommendations outlined.

We appreciate the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (904) 460-4641.

Sincerely,



William Marcus  
Principal

cc: Curt Riggs, NewGables Capital



## EXECUTIVE SUMMARY

Partner Assessment Corporation, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in general accordance with the scope of work and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) and set forth by SRF Ventures for the property located at 500 Lakeland Avenue in the Hamlet of Sayville, Town of Islip, Suffolk County, New York (the "subject property"). The Phase I Environmental Site Assessment is designed to provide SRF Ventures with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

### Property Description

The subject property is located on the west sides of Lakeland Avenue, Chester Road, and Carrie Avenue; the north sides of Stirling Place and Terry Road; the east side of Bohemia Parkway, and the south side of 11<sup>th</sup> Street, within a mixed residential area of Suffolk County. Please refer to the table below for further description of the subject property:

#### ***Subject Property Data***

<b>Addresses:</b>	458, 500 Lakeland Avenue, Islip, New York
<b>Additional Address:</b>	450 Lakeland Avenue
<b>Property Use:</b>	Vacant former golf course
<b>Land Acreage (Ac):</b>	118.03 Ac
<b>Number of Buildings:</b>	Six (Clubhouse/banquet facility, Pro shop, pool house/snack bar, maintenance building, two single-family houses)
<b>Number of Floors:</b>	Two (single-family houses and Pro shop); with basements (Clubhouse, single-family houses)
<b>Gross Building Area (SF):</b>	1,527 SF (450 Lakeland Avenue); 1,106 SF (458 Lakeland Avenue); 37,851 SF (500 Lakeland Avenue)
<b>Net Rentable Area (SF):</b>	N/A
<b>Dates of Construction:</b>	1927 (original portion of clubhouse), 1940 (450 Lakeland Avenue and 458 Lakeland Avenue); 1954 (pool snack bar), 1957 (maintenance building, swimming pool, and Pro Shop)
<b>Assessor's Parcel Numbers (APNs):</b>	0500-28000-0100-002000 (458 Lakeland Avenue), 0500-28000-0100-003000, 0500-28000-0100-004000 (450 Lakeland Avenue), 0500-28000-0100-010000, 0500-28000-0100-015001 (500 Lakeland Avenue), 0500-28000-0100-016000, 0500-25700-0300-003000
<b>Type of Construction:</b>	Wood-framed, concrete foundations; vinyl, brick, and wood sidings
<b>Current Tenants:</b>	Former Island Hills Golf Club
<b>Site Assessment Performed By:</b>	David Bachman of Partner
<b>Site Assessment Conducted On:</b>	September 19, 2017

The subject property is currently occupied by the former Island Hills Golf Club (scheduled to be redeveloped for residential use), and primarily consists of grasslands and woods. Onsite operations consist of the following vacant buildings: Clubhouse/banquet facility, Pro shop, pool house, maintenance



building, and two single-family houses. In addition to the current structures, the subject property is also improved with asphalt-paved parking areas, drained former water traps/small ponds, 19 inactive irrigation control boxes, and a covered swimming pool.

According to available historical sources, the subject property was formerly undeveloped as early as 1902; developed with the former golf course between 1927 and circa 2015; and developed with the current structures between 1927 and 1957. Tenants on the subject property have included Island Hills Golf Club (1927-2015).

The immediately surrounding properties consist of single-family houses to the north across 11<sup>th</sup> Street; single-family houses to the south across Stirling Place and southwest across Terry Road; single-family houses to the east across Chester Road and Carrie Avenue; single-family houses to the west across Bohemia Parkway, and an age-restricted luxury apartment complex across Lakeland Avenue to the northeast.

According to previous subsurface investigations and reports, the depth to groundwater in the vicinity of the subject property is inferred to be approximately 20-25 feet below ground surface (bgs) with flow toward the south.

## Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during this assessment:

- Based on the historical information review, a commercial golf course operated at the subject property between 1927 and 2015. Based on previous studies at the subject property performed in 2006 and 2014, golf course-related chemicals (i.e., pesticides, herbicides, and fertilizers), were used and stored onsite. According to a subsurface investigation performed in 2006, 29 of 30 sample locations at the subject property exhibited surface soil sample results that exceeded regulatory criteria for semi-volatile organic compounds (SVOCs), metals, and/or pesticides. At some locations, the exceedances were as much as 100 times the regulatory level. Based on these reasons, Partner concludes that the former use of agricultural chemicals is expected to represent a significant environmental concern at this time. It should be noted that Partner has not received a response to a FOIA request from the Sussex County Health Department for inclusion into this report. Based on the soil contamination information regarding the subject property, the former golf course facility is considered a *recognized environmental condition*.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

- Partner did not identify any CRECs during this assessment.



A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during this assessment:

- The subject property was formerly equipped with a 1,000-gallon gasoline underground storage tank (UST) that was removed in 2010 from the southwest portion of the property (Tank #2). A release from this UST was reported on December 21, 2005, which reportedly impacted soil only (Spill #0511071). The release occurred due to an apparent “bad check valve”. The tank valve was reportedly repaired, and regulatory closure was obtained on March 21, 2006. As a result, the New York State Department of Environmental Conservation (NYSDEC) issued a No Further Action (NFA) letter to Island Hills Golf Club (responsible party) on March 31, 2006. A copy of the NFA letter is included in Appendix B of this report. Based on the regulatory closure, the former spill case is considered a historical recognized environmental condition, and no further action is considered necessary.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during this assessment:

- Due to the age of the subject property buildings, there is a potential that asbestos-containing material (ACM) and/or lead-based paint (LBP) are present. Overall, all suspect ACMs and painted surfaces were observed in good condition and do not pose a health and safety concern to the occupants of the subject property at this time. Identified suspect ACMs at the subject property would need to be sampled to confirm the presence or absence of asbestos prior to proposed demolition activities to prevent potential exposure to workers.
- The subject property is reported as a registered aboveground/underground storage tank (AST/UST) facility (Suffolk County Site #07235 and #11452). The site is registered with a 2,000-gallon gasoline UST that was installed in 1977 and removed in 1986 (Tank #1), and a 1,000-gallon gasoline UST that was installed in 1986 and removed in 2010 (Tank #2).

The subject property is also listed with a 275-gallon diesel AST that was installed in 1979 and removed in 1998 (Tank #3); a chemical storage container of unknown size that was removed in 1998 (Tank #4), and a 300-gallon diesel AST that was permitted in 1999 and removed in 2004 (Tank #5). No significant releases or spills are associated with these listings. Based on the apparent absence of petroleum impacts and the regulatory status, these listings are not expected to represent a significant environmental concern.

- Various environmental-related reports, figures, and data was provided to the Client and, subsequently Partner for review. The information details remedial activities onsite over the last 11 years and correlates to the information obtained and reviewed by Partner during the course of this assessment. It outlines multiple phases of UST, AST, sanitary system, dry well, and storm drain sampling with only historical use soil remediation remaining. Based on the remedial



investigation conducted to date, these historical environmental concerns are not expected to represent a significant environmental concern.

### **Conclusions, Opinions, and Recommendations**

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 500 Lakeland Avenue in the Hamlet of Sayville, Town of Islip, Suffolk County, New York (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed evidence of recognized environmental conditions and/or environmental issues in connection with the subject property. Based on the conclusions of this assessment and on the review of available data and the third-party provided reports, Partner concurs with P.W. Grosser Consulting (PWGC) investigative/remedial work conducted to-date, as well as their conclusions and recommendations for soil management/remediation. All work conducted to date (i.e., provided for review) appears to have been completed in accordance with and in respect to the appropriate regulatory and industry standards:

- Partner agrees that further management of onsite soils will be required if the subject property use changes, and that vertical mixing would be the most cost-efficient method for the amount of soil located at the Site.
- Furthermore, Partner concurs with PWGC scope of work. A Site Management Plan should be developed and approved by the appropriate regulatory agencies; perimeter air monitoring is usually required during projects of this scope; and soil sampling throughout the process will be necessary.
- Partner agrees that, prior to construction activities, all remaining environmental structures (storm drains and cesspools) should be closed and sampled as appropriate. Any remaining ASTs should be cleaned and properly disposed of. Soil beneath each AST should be sampled if there is any indication of staining, leakage, or other visual signs of possible AST failure (e.g., holes, pitting, corrosion, etc.).

Partner agrees that the dual scenario costing presented by PWGC is appropriate and the costs associated with each scenario appear reasonable based on the information provided. PWGC assumes all soil will remain onsite (to be reused during final site grading); as such, PWGC proposed costs do not include soil disposal. It should be noted that final construction plans or soil disposal, if needed, may affect cost overall.

Finally, Partner recommends that suspect ACMs at the subject property should be sampled to confirm the presence or absence of asbestos prior to proposed demolition activities.



# TABLE OF CONTENTS

---

<b>1.0</b>	<b>INTRODUCTION .....</b>	<b>1</b>
1.1	Purpose .....	1
1.2	Scope of Work .....	1
1.3	Limitations .....	2
1.4	User Reliance .....	2
1.5	Limiting Conditions .....	3
<b>2.0</b>	<b>SITE DESCRIPTION .....</b>	<b>5</b>
2.1	Site Location and Legal Description .....	5
2.2	Current Property Use .....	5
2.3	Current Use of Adjacent Properties .....	6
2.4	Physical Setting Sources .....	6
2.4.1	Topography .....	6
2.4.2	Hydrology .....	6
2.4.3	Geology/Soils .....	7
2.4.4	Flood Zone Information .....	8
<b>3.0</b>	<b>HISTORICAL INFORMATION .....</b>	<b>9</b>
3.1	Aerial Photograph Review .....	9
3.2	Fire Insurance Maps .....	11
3.3	City Directories .....	11
3.4	Historical Topographic Maps .....	11
<b>4.0</b>	<b>REGULATORY RECORDS REVIEW .....</b>	<b>13</b>
4.1	Regulatory Agencies .....	13
4.1.1	State Department .....	13
4.1.2	Health Department .....	13
4.1.3	Fire Department .....	13
4.1.4	Building Department .....	14
4.1.5	Planning Department .....	14
4.1.6	Assessor's Office .....	14
4.2	Mapped Database Records Search .....	15
4.2.1	Regulatory Database Summary .....	15
4.2.2	Subject Property Listings .....	16
4.2.3	Adjacent Property Listings .....	17
4.2.4	Sites of Concern Listings .....	18
4.2.5	Orphan Listings .....	18
<b>5.0</b>	<b>USER PROVIDED INFORMATION AND INTERVIEWS .....</b>	<b>19</b>
5.1	Interviews .....	20
5.1.1	Interview with Owner .....	20
5.1.2	Interview with Report User .....	20
5.1.3	Interview with Key Site Manager .....	20
5.1.4	Interviews with Past Owners, Operators, and Occupants .....	20
5.1.5	Interview with Others .....	20
5.2	User Provided Information .....	20



5.2.1	Title Records, Environmental Liens, and AULs.....	20
5.2.2	Specialized Knowledge.....	20
5.2.3	Actual Knowledge of the User .....	21
5.2.4	Valuation Reduction for Environmental Issues .....	21
5.2.5	Commonly Known or Reasonably Ascertainable Information .....	21
5.2.6	Previous Reports and Other Provided Documentation .....	21
<b>6.0</b>	<b>SITE RECONNAISSANCE .....</b>	<b>27</b>
6.1	General Site Characteristics.....	27
6.2	Potential Environmental Hazards.....	28
6.3	Non-ASTM Services.....	30
6.3.1	Asbestos-Containing Materials (ACMs) .....	30
6.3.2	Lead-Based Paint (LBP) .....	31
6.3.3	Radon .....	32
6.3.4	Lead in Drinking Water.....	32
6.3.5	Mold.....	32
6.4	Adjacent Property Reconnaissance.....	33
<b>7.0</b>	<b>FINDINGS AND CONCLUSIONS.....</b>	<b>34</b>
<b>8.0</b>	<b>SIGNATURES OF ENVIRONMENTAL PROFESSIONALS .....</b>	<b>37</b>
<b>9.0</b>	<b>REFERENCES.....</b>	<b>38</b>

## **Figures**

<b>Figure 1</b>	Site Location Map
<b>Figure 2</b>	Site Plan
<b>Figure 3</b>	Topographic Map

## **Appendices**

<b>Appendix A</b>	Site Photographs
<b>Appendix B</b>	Historical/Regulatory Documentation
<b>Appendix C</b>	Regulatory Database Report
<b>Appendix D</b>	Qualifications



## 1.0 INTRODUCTION

---

Partner Assessment Corporation, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in general conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) for the property located at 500 Lakeland Avenue in the Hamlet of Sayville, Town of Islip, Suffolk County, New York (the "subject property"). Any exceptions to, or deletions from, this scope of work are described in the report.

### 1.1 Purpose

The purpose of this ESA is to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E1527-13) affecting the subject property that: 1) constitute or result in a material violation or a potential material violation of any applicable environmental law; 2) impose any material constraints on the operation of the subject property or require a material change in the use thereof; 3) require clean-up, remedial action or other response with respect to Hazardous Substances or Petroleum Products on or affecting the subject property under any applicable environmental law; 4) may affect the value of the subject property; and 5) may require specific actions to be performed with regard to such conditions and circumstances. The information contained in the ESA Report will be used by Client to: 1) evaluate its legal and financial liabilities for transactions related to foreclosure, purchase, sale, loan origination, loan workout or seller financing; 2) evaluate the subject property's overall development potential, the associated market value and the impact of applicable laws that restrict financial and other types of assistance for the future development of the subject property; and/or 3) determine whether specific actions are required to be performed prior to the foreclosure, purchase, sale, loan origination, loan workout or seller financing of the subject property.

This ESA was performed to permit the *User* to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on scope of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the "*landowner liability protections*," or "*LLPs*"). ASTM Standard E1527-13 constitutes "*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B).

### 1.2 Scope of Work

The scope of work for this ESA is in general accordance with the requirements of ASTM Standard E1527-13. This assessment included: 1) a property and adjacent site reconnaissance; 2) interviews with key personnel; 3) a review of historical sources; 4) a review of regulatory agency records; and 5) a review of a regulatory database report provided by a third-party vendor. Partner contacted local agencies, such as environmental health departments, fire departments and building departments in order to determine any current and/or former hazardous substances usage, storage and/or releases of hazardous substances on the subject property. Additionally, Partner researched information on the presence of activity and use limitations (AULs) at these agencies. As defined by ASTM E1527-13, AULs are the legal or physical restrictions or limitations on the use of, or access to, a site or facility: 1) to reduce or eliminate potential



exposure to hazardous substances or petroleum products in the soil or groundwater on the subject property; or 2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls (IC/ECs), are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or groundwater on the property.

If requested by Client, this report may also include the identification, discussion of, and/or limited sampling of asbestos-containing materials (ACMs), lead-based paint (LBP), mold, and/or radon.

### **1.3 Limitations**

Partner warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the Scope of Work. These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying recognized environmental conditions. There is a possibility that even with the proper application of these methodologies there may exist on the subject property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. Partner believes that the information obtained from the record review and the interviews concerning the subject property is reliable. However, Partner cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluations. The conclusions presented in the report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No other warranties are implied or expressed.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This report is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.

This practice does not address requirements of any state or local laws or of any federal laws other than the all appropriate inquiry provisions of the LLPs. Further, this report does not intend to address all of the safety concerns, if any, associated with the subject property.

Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, LBP, radon, and lead in drinking water. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, are considered non-scope issues. If specifically requested by the Client, these non-scope issues are discussed in Section 6.3.

### **1.4 User Reliance**

SRF Ventures engaged Partner to perform this assessment in accordance with an agreement governing the nature, scope and purpose of the work as well as other matters critical to the engagement. All reports, both verbal and written, are for the sole use and benefit of SRF Ventures. Either verbally or in



writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with Partner granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against Partner, its officers, employees, vendors, successors or assigns. Any such unauthorized user shall be responsible to protect, indemnify and hold Partner, Client and their respective officers, employees, vendors, successors and assigns harmless from any and all claims, damages, losses, liabilities, expenses (including reasonable attorneys' fees) and costs attributable to such Use. Unauthorized use of this report shall constitute acceptance of and commitment to these responsibilities, which shall be irrevocable and shall apply regardless of the cause of action or legal theory pled or asserted. Additional legal penalties may apply.

This report has been completed under specific Terms and Conditions relating to scope, relying parties, limitations of liability, indemnification, dispute resolution, and other factors relevant to any reliance on this report. Any parties relying on this report do so having accepted the Terms and Conditions for which this report was completed. A copy of Partner's standard Terms and Conditions can be found at <http://www.partneresi.com/terms-and-conditions.php>.

## **1.5 Limiting Conditions**

The findings and conclusions contain all of the limitations inherent in these methodologies that are referred to in ASTM E1527-13.

Specific limitations and exceptions to this ESA are more specifically set forth below:

- Interviews with past owners, operators, and occupants were not reasonably ascertainable and thus constitute a data gap. Based on information obtained from other historical sources (as discussed in Section 3.0), this data gap is not expected to alter the findings of this assessment.
- Partner requested information relative to deed restrictions and environmental liens, a title search, and completion of a pre-survey questionnaire from the Report User. This information was not provided at the time of the assessment.
- Partner was not able to document the historical use of the subject property prior to 1902. The following sources were reviewed during the course of this assessment and found to be limited: aerial photographs were not available prior to 1938; topographic maps prior to 1902 were not reasonably ascertainable from local agencies; and other historical sources such as fire insurance maps and city directories did not provide coverage of the subject property. This data failure is not considered critical and does not change the conclusions of this report, as the 1938 aerial photograph revealed the subject property to be developed with the existing golf course. In addition, the adjacent and surrounding areas are also shown mostly as undeveloped woods, with a small residential development to the north of the subject property.
- Partner was unable to determine the property use at 5-year intervals, which constitutes a data gap. Information concerning historical use of the subject property was unavailable from 1919 to 1938 and from 1994 to 2006. Except for property tax files and recorded land title records, which



were not considered to be sufficiently useful, Partner reviewed all standard historical sources and conducted appropriate interviews.

- Partner submitted Freedom of Information Act (FOIA) requests to the Town of Islip and the Suffolk County Health Department for information pertaining to hazardous substances, underground storage tanks, releases, inspection records, etc. for the subject property and/or adjacent properties. As of this writing, these agencies have not responded to Partner's request. Based on information obtained from other historical sources, this limitation is not expected to alter the overall findings of this assessment.

Due to time constraints associated with this report, the Client has requested the report despite the above-listed limitations.



## 2.0 SITE DESCRIPTION

### 2.1 Site Location and Legal Description

The subject property at 500 Lakeland Avenue in Islip, New York is located on the west sides of Lakeland Avenue (County Route 93), Chester Road, and Carrie Avenue; the north sides of Stirling Place and Terry Road (Hauppauge Road); the east side of Bohemia Parkway, and the south side of 11<sup>th</sup> Street. According to the Suffolk County Assessor, the subject property is legally described in District 500 as follows:

Section	Block	Lot	Address	Acreage
280	1	2	458 Lakeland Avenue	0.49
280	1	3	Lakeland Avenue	0.07
280	1	4	450 Lakeland Avenue	0.28
280	1	10	Chester Road	0.63
280	1	15.001	500 Lakeland Avenue	116.25
280	1	16	Chester Road	0.22
257	3	3	Lakeland Avenue	0.09
				<b>118.03</b>

Ownership is currently vested in Rechler-Equity Partners since 2017.

Please refer to Figure 1: Site Location Map, Figure 2: Site Plan, Figure 3: Topographic Map, and Appendix A: Site Photographs for the location and site characteristics of the subject property.

### 2.2 Current Property Use

The subject property is currently occupied by the former Island Hills Golf Club (scheduled to be redeveloped for residential use), and primarily consists of undeveloped grasslands and woods. Onsite operations consist of the following vacant buildings: Clubhouse/banquet facility, Pro shop, pool house, maintenance building, and two single-family houses. In addition to the current structures, the subject property is also improved with asphalt-paved parking areas, drained former water traps/small ponds, 19 inactive irrigation control boxes, and a covered swimming pool.

The subject property is designated for residential development by the Town of Islip.

The subject property was identified as a NY Underground Storage Tank / Aboveground Storage Tank (UST/AST) and NY Spills site in the regulatory database report, as further discussed in Section 4.2.



## 2.3 Current Use of Adjacent Properties

The subject property is located within a mixed residential area of Suffolk County. During the vicinity reconnaissance, Partner observed the following land use on properties in the immediate vicinity of the subject property:

<i>Immediately Surrounding Properties</i>	
<b>North:</b>	11th Street, beyond which are single-family houses (4910 Sunrise Highway; 7, 11, 15, 19, 21, 31 11 <sup>th</sup> Street; 4 Hudson Avenue; and 639 Sayville Avenue)
<b>South:</b>	Single-family houses (763 and 766 Durham Road); Stirling Place, beyond which are single-family houses (6, 10, and 18 Stirling Place)
<b>Southwest:</b>	Terry Road, beyond which are single-family houses (122, 124, 126, 128, 136, 138, 140, 148, 168, 172, 204 Terry Road)
<b>East:</b>	Single-family houses (902, 936, 940, 944, 948, 952, 960, 964, and 968 Chester Road); Chester Road, beyond which are single-family houses (897, 901, 905, 911, 915, 919, 923, and 927 Chester Road); and Carrie Avenue, beyond which are single-family houses (27, 31, 35, 47, 51, 55, 59, 63, 67, 71, 79, and 83 Carrie Avenue; 224 and 225 Marion Street)
<b>Northeast:</b>	Lakeland Avenue, beyond which is Fairfield Knolls at Sayville apartment development (400 Adams Way)
<b>West:</b>	Bohemia Parkway, beyond which are single-family houses (616, 620, 624, 628, 632, 636, 640, 644, 648, 652, 656, 660, 664, 668, 672, 676, 680, 684, 692, 696, 700, 704, 708, 712, 716, 720, 724, 728, 732, 736, 740, 748, and 752 Bohemia Parkway)

Adjacent properties to the southeast, southwest, and west were identified as NY Spills sites in the regulatory database report of Section 4.2; and an adjacent property to the east was identified as a Historical Auto Station site in the regulatory database report.

## 2.4 Physical Setting Sources

### 2.4.1 Topography

The United States Geological Survey (USGS) *Patchogue and Sayville, New York* Quadrangles 7.5-minute series topographic map was reviewed for this ESA. According to the contour lines on the topographic map, elevations at the subject property range between approximately 35 and 42 feet above mean sea level (MSL). The contour lines in the area of the subject property indicate the area is sloping toward the south-southeast.

A copy of the most recent topographic map is included as Figure 3 of this report.

### 2.4.2 Hydrology

According to a previous subsurface investigation conducted on the subject property (2006) the depth to groundwater at the subject property was identified to be approximately 20-25 feet below ground surface (bgs). According to topographic map interpretation, groundwater in the vicinity of the subject property is inferred to flow toward the south.

The nearest surface water in the vicinity of the subject property is Green Creek located approximately 2,000-feet southeast of the subject property. No settling ponds, lagoons, surface impoundments, apparent wetlands, or natural catch basins were observed at the subject property during this assessment.



According to available information, a public water system operated by the Suffolk County Water Authority (SCWA) serves the subject property vicinity (Distribution Area 1). According to the 2015 SCWA Water Quality Report, shallow groundwater beneath the subject property is not utilized for domestic purposes. The source of public water for the Town of Islip is groundwater obtained from four (4) layered sandy geological formations that make up the Long Island Aquifer System.

### **2.4.3 Geology/Soils**

The subject site is located within the Atlantic Coastal Plain Physiographic Province of the eastern United States within the region of New York state known as Long Island. Long Island's present configuration is primarily the result of glaciation that occurred during the Pleistocene Era, and predominantly during the last ice age (the Wisconsinian), which ended about ten thousand (10,000) years ago.

The geologic structure of Long Island is relatively uniform. The island is underlain by bedrock of the Precambrian system (Proterozoic Era), composed of crystalline metamorphic and igneous rock with a southeast slope. Lying over the bedrock is a wedge-shaped mass of unconsolidated material. The wedge of unconsolidated sediments ranges in thickness from zero where the bedrock surfaces near the East River, to 1,100 feet thick in the southeast part of Queens, to 2,000 feet thick in south-central Suffolk County. Two advances of the Wisconsin ice sheet during the Upper Pleistocene of the Quaternary Period caused the island to be blanketed with till, ice-contact stratified drift, outwash deposits, and deposits composed of clay, silt, sand, gravel, and boulders. The terminal moraines and the north shore are composed primarily of stratified drift with some till. The areas between the moraines and further south are mostly outwash deposits. Central and southern Long Island are of glaciofluvial origin.

Based on information obtained from the USDA Natural Resources Conservation Service Web Soil Survey online database, the subject property is mapped as follows

- Riverhead sandy loam, 0 to 3 percent slopes (RdA) – This well-drained soil type is described as approximately two feet of sandy loam underlain by approximately one foot of gravelly loamy sand, and below three feet is described as stratified coarse sand to gravelly sand. The soil originated as loamy glaciofluvial deposits overlying stratified sand and gravel, and depth to water is greater than six feet.
- Riverhead and Haven soils, graded, 0 to 8 percent slopes (RhB) – This soil complex is comprised of approximately 45% Riverhead soils (described above), and approximately 35% Haven soils, with approximately 20% minor components. Haven soils are described as approximately two feet of loam underlain by ten inches of gravelly loam, and stratified gravelly sand below 28 inches. Haven soils originated as loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, and depth to water is greater than six feet.
- Deerfield sand (De) – This moderately well-drained soil is described as three inches of highly decomposed organic material underlain by sand. This soil originated as sandy glaciofluvial or deltaic deposits derived mainly from granite, gneiss, or sandstone. Depth to water is approximately two feet.



- Carver and Plymouth sands, 0 to 3 percent slopes (CpA) and 3 to 15 percent slopes (CpC) - These soil complexes are comprised of approximately 40% Carver soils and approximately 40% Plymouth Sands, with approximately 20% minor components. Carver soils are described as excessively well-drained, with one inch of highly decomposed organic material underlain by coarse sand. This soil originated as coarse sandy glaciofluvial deposits, and depth to water is greater than six feet. Plymouth Sand is described as excessively well-drained, with approximately two feet of sand underlain by gravelly coarse sand. This soil originated as acid sandy glaciofluvial or deltaic deposits, and depth to water is greater than six feet.

#### **2.4.4 Flood Zone Information**

Partner performed a review of the Flood Insurance Rate Map, published by the Federal Emergency Management Agency. According to Community Panel Numbers 36103C0690H and 36103C0901H, dated September 25, 2009, the subject property appears to be located in Zone X, an area located outside of the 100-year and 500-year flood plains.

A copy of the reviewed flood map is not included in Appendix B of this report.



### 3.0 HISTORICAL INFORMATION

Partner obtained historical use information about the subject property from a variety of sources. A chronological listing of the historical data found is summarized in the table below:

<i>Historical Use Information</i>		
<b>Period/Date</b>	<b>Source</b>	<b>Description/Use</b>
1902-1927	Interviews, Topographic Maps	Undeveloped/Native land
1927-Present	Aerial Photographs, Interviews, Onsite Observations, Previous Report	Commercial (Island Hills Golf Club)

Tenants on the subject property have included Island Hills Golf Club (1927-Present). Potential environmental concerns were identified in association with the current or former use of the subject property, as further discussed in Section 5.2.6.

#### 3.1 Aerial Photograph Review

Partner obtained available aerial photographs of the subject property and surrounding area from Environmental Data Resources (EDR) on September 11, 2017. The following observations were noted to be visible on the subject property and adjacent properties during the aerial photograph review:

<i>Date:</i>	<i>1938</i>	<i>Scale:</i>	<i>1" = 500'</i>
<b>Subject Property:</b>	Apparent as developed with the existing golf course, including a portion of the existing Clubhouse, one single-family house in the northeast portion (existing 458 Lakeland Avenue), and a small structure in the northeast corner.		
<b>North:</b>	Apparent as primarily undeveloped woods across 11 <sup>th</sup> Street, and developed with an apparent house, several undeveloped roads extending north from 11 <sup>th</sup> Street, and a square excavated area (northeast).		
<b>South:</b>	No coverage.		
<b>East:</b>	Apparent as undeveloped woods across Chester Road and Lakeland Avenue.		
<b>West:</b>	Apparent as undeveloped woods across Bohemia Parkway and Terry Road.		

<i>Date:</i>	<i>1947</i>	<i>Scale:</i>	<i>1" = 500'</i>
<b>Subject Property:</b>	One existing house is apparent in the northeast portion (450 Lakeland Avenue); no other significant changes visible.		
<b>North:</b>	The roads north of 11 <sup>th</sup> Street appear as developed, and an additional house is apparent.		
<b>South:</b>	No significant changes visible.		
<b>East:</b>	No significant changes visible.		
<b>West:</b>	No significant changes visible.		

<i>Date:</i>	<i>1954</i>	<i>Scale:</i>	<i>1" = 500'</i>
<b>Subject Property:</b>	No significant changes visible, except that an addition is apparent on the south side of the Clubhouse, and the northeast small structure is larger (portion of current pool snack bar building).		
<b>North:</b>	Developed across 11 <sup>th</sup> Street with an apparent detention basin and storage yard (northeast), and existing Sunrise Highway is apparent as under construction further		



<b>Date:</b>	<b>1954</b>	<b>Scale:</b>	<b>1" =500'</b>
	north.		
<b>South:</b>	No significant changes visible.		
<b>East:</b>	No significant changes visible.		
<b>West:</b>	No significant changes visible.		
<b>Date:</b>	<b>1957</b>	<b>Scale:</b>	<b>1" =500'</b>
<b>Subject Property:</b>	The existing maintenance building, swimming pool, and Pro Shop building are apparent.		
<b>North:</b>	No significant changes visible, except that the former storage yard is apparent as removed and Sunrise Highway is apparent as completed.		
<b>South:</b>	No significant changes visible.		
<b>East:</b>	No significant changes visible.		
<b>West:</b>	No significant changes visible; existing single-family houses are apparent further west.		
<b>Date:</b>	<b>1962</b>	<b>Scale:</b>	<b>1" =500'</b>
<b>Subject Property:</b>	No significant changes visible.		
<b>North:</b>	No significant changes visible, except that houses are apparent on the south side of Sunrise Highway.		
<b>South:</b>	No significant changes visible.		
<b>East:</b>	Several existing houses are apparent along both sides of Chester Road.		
<b>West:</b>	Several existing houses are apparent along the south side of Terry Road.		
<b>Date:</b>	<b>1966</b>	<b>Scale:</b>	<b>1" =500'</b>
<b>Subject Property:</b>	The existing Clubhouse is apparent as fully developed, and the golf cart storage building is apparent south of the Pro shop.		
<b>North:</b>	Two existing houses are apparent north of 11 <sup>th</sup> Street.		
<b>South:</b>	No significant changes visible.		
<b>East:</b>	Existing houses are apparent as developed along Chester Road, and some existing houses are apparent along Carrie Avenue (southeast).		
<b>West:</b>	Existing houses are apparent along Bohemia Parkway.		
<b>Date:</b>	<b>1970</b>	<b>Scale:</b>	<b>1" =500'</b>
<b>Subject Property:</b>	No significant changes visible.		
<b>North:</b>	Additional existing houses are apparent north of 11 <sup>th</sup> Street.		
<b>South:</b>	No significant changes visible.		
<b>East:</b>	No significant changes visible.		
<b>West:</b>	Existing houses are fully apparent along the south side of Terry Road.		
<b>Date:</b>	<b>1976, 1980, 1985, 1994</b>	<b>Scale:</b>	<b>1" =500'</b>
<b>Subject Property:</b>	No significant changes visible.		
<b>North:</b>	No significant changes visible, except that the former storage yard is apparent with three tennis courts.		
<b>South:</b>	No significant changes visible.		



<b>Date:</b>	<b>1976, 1980, 1985, 1994</b>	<b>Scale:</b>	<b>1" = 500'</b>
<b>East:</b>	Apparent as developed with existing houses across Carrie Avenue.		
<b>West:</b>	No significant changes visible.		

<b>Date:</b>	<b>2006, 2008, 2009, 2011</b>	<b>Scale:</b>	<b>1" = 500'</b>
<b>Subject Property:</b>	No significant changes visible.		
<b>North:</b>	No significant changes visible, except that the former tennis courts are apparent as removed.		
<b>South:</b>	No significant changes visible.		
<b>East:</b>	No significant changes visible, except that the existing apartment development is apparent to the northeast.		
<b>West:</b>	No significant changes visible.		

Copies of select aerial photographs are included in Appendix B of this report.

### 3.2 Fire Insurance Maps

Sanborn map coverage was not available for the subject property.

### 3.3 City Directories

City Directory coverage was not available for the subject property.

### 3.4 Historical Topographic Maps

Partner reviewed historical topographic maps obtained from EDR on September 11, 2017. The following observations were noted to be depicted on the subject property and adjacent properties during the topographic map review:

<b>Date:</b>	<b>1902, 1903, 1904, 1919</b>
<b>Subject Property:</b>	Depicted as undeveloped.
<b>North:</b>	Depicted as undeveloped.
<b>South:</b>	Depicted as undeveloped.
<b>East:</b>	Depicted as undeveloped across Lakeland Avenue.
<b>West:</b>	Depicted as undeveloped across Terry Road.

<b>Date:</b>	<b>1942</b>
<b>Subject Property:</b>	Depicted as undeveloped woods.
<b>North:</b>	Depicted as undeveloped woods.
<b>South:</b>	No significant changes depicted.
<b>East:</b>	Depicted as undeveloped woods across Lakeland Avenue.
<b>West:</b>	Depicted as undeveloped woods.

<b>Date:</b>	<b>1947</b>
<b>Subject Property:</b>	Depicted with three small buildings in the northeast corner, and a dirt road is depicted as extending through the property from Bohemia Parkway (west) to the north end of Carrie Avenue (southeast).
<b>North:</b>	Depicted as developed with several streets extending northwesterly across 11 <sup>th</sup>



**Date:** 1947

**South:** Street, and several small buildings (houses).  
**East:** Depicted as developed with existing streets.  
**West:** Depicted across Bohemia Parkway as developed with dirt roads parallel to Bohemia Parkway.

**Date:** 1955, 1956

**Subject Property:** Depicted as developed with Island Hills Golf Club, including a small Clubhouse.  
**North:** Shaded pink across 11<sup>th</sup> Street, indicating fully developed.  
**South:** No significant changes depicted.  
**East:** No significant changes depicted.  
**West:** Shaded pink across Bohemia Parkway, indicating fully developed; no significant changes southwest.

**Date:** 1967, 1979

**Subject Property:** No significant changes depicted, except that the Clubhouse is apparent as larger.  
**North:** Depicted across 11<sup>th</sup> Street with existing streets, several houses, and an apparent retention pond (northeast).  
**South:** Shaded pink across Sterling Place and Terry Road, indicating fully developed.  
**East:** Depicted as developed with existing houses on both sides of Chester Road, and shaded pink across Carrie Avenue, indicating fully developed.  
**West:** No significant changes depicted.

**Date:** 2013

**Subject Property:** No buildings are shown.  
**North:** No buildings are shown.  
**South:** No buildings are shown across Sterling Place and Terry Road.  
**East:** No buildings are shown across Carrie Avenue, Chester Road, and Lakeland Avenue.  
**West:** No buildings are shown across Bohemia Parkway.

Copies of reviewed topographic maps are included in Appendix B of this report.



## 4.0 REGULATORY RECORDS REVIEW

---

### 4.1 Regulatory Agencies

#### 4.1.1 State Department

##### *Regulatory Agency Data*

<b>Name of Agency:</b>	New York State Department of Environmental Conservation (NYSDEC)
<b>Point of Contact:</b>	<a href="http://www.dec.ny.gov">http://www.dec.ny.gov</a>
<b>Agency Address:</b>	Petroleum Bulk Storage (PBS) Database, Spills Incidents Database, and Environmental Site Remediation Database
<b>Agency Phone Number:</b>	(518) 402-9543
<b>Date of Contact:</b>	September 15, 2017
<b>Method of Communication:</b>	On-line
<b>Summary of Communication:</b>	No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the NYSDEC. NYSDEC does not maintain the PBS registration records for Suffolk County, and has delegated this authority to the Suffolk County Health Department.

#### 4.1.2 Health Department

##### *Regulatory Agency Data*

<b>Name of Agency:</b>	Suffolk County Health Department (SCHD)
<b>Point of Contact:</b>	Ms. Michelle Rosen
<b>Agency Address:</b>	360 Yaphank Avenue, Yaphank, New York
<b>Agency Phone Number:</b>	(631) 852-5810
<b>Date of Contact:</b>	September 15, 2017
<b>Method of Communication:</b>	U.S. Mail
<b>Summary of Communication:</b>	Partner has received correspondence from the SCDHS indicating that requested information will be provided no earlier than approximately October 16, 2017.

#### 4.1.3 Fire Department

##### *Regulatory Agency Data*

<b>Name of Agency:</b>	Suffolk County Department of Fire, Rescue, and Emergency Services (SCDFRES)
<b>Point of Contact:</b>	Ms. Susan M. Nielsen, Freedom of Information Officer



#### ***Regulatory Agency Data***

**Agency Address:** 102 East Avenue, Yaphank, New York  
**Agency Phone Number:** (631) 852-4855  
**Date of Contact:** September 15, 2017  
**Method of Communication:** U.S. Mail  
**Summary of Communication:** As of the date of this report, Partner has not received a response from the SCDFRES for inclusion in this report.

#### ***4.1.4 Building Department***

#### ***Regulatory Agency Data***

**Name of Agency:** Islip Building Department (IBD)  
**Point of Contact:** Mrs. Olga Murray, Town Clerk  
**Agency Address:** 655 Main St, Islip, New York  
**Agency Phone Number:** (631) 224-5490  
**Date of Contact:** September 15, 2017  
**Method of Communication:** Email  
**Summary of Communication:** Partner has received correspondence from the IBD indicating that requested information will be provided no earlier than approximately October 16, 2017.

#### ***4.1.5 Planning Department***

#### ***Regulatory Agency Data***

**Name of Agency:** Town of Islip Planning Department (TIPD)  
**Point of Contact:** <http://gis2.suffolkcountyny.gov/GISViewer/>  
**Agency Address:** 100 Veterans Memorial Highway, Hauppauge, New York  
**Agency Phone Number:** (631) 853-5593  
**Date of Contact:** September 15, 2017  
**Method of Communication:** On-line  
**Summary of Communication:** According to records reviewed, the subject property is zoned for residential development by the Town of Islip.

#### ***4.1.6 Assessor's Office***

#### ***Regulatory Agency Data***

**Name of Agency:** Town of Islip Tax Assessor (TITA)  
**Point of Contact:** <http://www.townofislip-ny.gov/departments/assessor/assessment-roll>



### **Regulatory Agency Data**

**Agency Address:** 40 Nassau Avenue, Islip, New York  
**Agency Phone Number:** (631) 224-5585  
**Date of Contact:** September 15, 2017  
**Method of Communication:** Online  
**Summary of Communication:** According to records reviewed, the subject property is identified by Assessor Parcel Numbers (APNs) 0500-28000-0100-002000, 0500-28000-0100-003000, 0500-28000-0100-004000, 0500-28000-0100-010000, 0500-28000-0100-015001, 0500-28000-0100-016000, 0500-25700-0300-003000. The cumulative property is reportedly under contract with Rechler Equity Partners. The current buildings were constructed in 1985, and totals approximately 4,500 square feet on a 0.43 acre lot.

## **4.2 Mapped Database Records Search**

Information from standard federal, state, county, and city environmental record sources was provided by Environmental Data Resources, Inc. (EDR). Data from governmental agency lists are updated and integrated into one database, which is updated as these data are released. The information contained in this report was compiled from publicly available sources and the locations of the sites are plotted utilizing a geographic information system, which geocodes the site addresses. The accuracy of the geocoded locations is approximately +/-300 feet.

Using the ASTM definition of migration, Partner considers the migration of hazardous substances or petroleum products in any form onto the subject property during the evaluation of each site listed on the radius report, which includes solid, liquid, and vapor.

### **4.2.1 Regulatory Database Summary**

#### **Radius Report Data**

<b>Database</b>	<b>Search Radius (mile)</b>	<b>Subject Property</b>	<b>Adjacent Properties</b>	<b>Sites of Concern</b>
Federal NPL or Delisted NPL Site	1.00	N	N	N
Federal CERCLIS Site	0.50	N	N	N
Federal CERCLIS-NFRAP Site	0.50	N	N	N
Federal RCRA CORRACTS Facility	1.00	N	N	N
Federal RCRA TSDF Facility	0.50	N	N	N
Federal RCRA Generators Site (LQG, SQG, CESQG)	0.25	N	N	N
Federal IC/EC Registries	0.50	N	N	N
Federal ERNS Site	Subject Property	N	N	N
State/Tribal Equivalent NPL	1.00	N	N	N
State/Tribal Equivalent CERCLIS	1.00	N	N	N



### ***Radius Report Data***

<b>Database</b>	<b>Search Radius (mile)</b>	<b>Subject Property</b>	<b>Adjacent Properties</b>	<b>Sites of Concern</b>
State/Tribal Landfill/Solid Waste Disposal Site	0.50	N	N	N
State/Tribal Leaking Storage Tank Site	0.50	N	N	N
State/Tribal Registered Storage Tank Sites (UST/AST)	0.25	<b>Y</b>	N	N
State/Tribal Voluntary Cleanup Sites (VCP)	0.50	N	N	N
State/Tribal Spills	0.50	<b>Y</b>	<b>Y</b>	N
Federal Brownfield Sites	0.50	N	N	N
State Brownfield Sites	0.50	N	N	N
EDR MGP	Varies	N	N	N
EDR US Hist Auto Station	Varies	N	<b>Y</b>	N
EDR US Hist Cleaners	Varies	N	N	N

#### **4.2.2 Subject Property Listings**

The subject property is identified as a UST/AST and NY Spills site in the regulatory database report, as discussed below:

- The subject property, identified as **Island Hills Golf Club** at County Road 93 (Lakeland Avenue), is reported as a UST facility (Suffolk County Site #11452). The site is registered with a 2,000-gallon gasoline UST that was installed in 1977 and removed in 1986 (Tank #1), and a 1,000-gallon gasoline UST that was installed in 1986 and removed in 2010 (Tank #2).

The subject property is also listed with a 275-gallon diesel AST that was installed in 1979 and removed in 1998 (Tank #3); a chemical storage container of unknown size that was removed in 1998 (Tank #4), and a 300-gallon diesel AST that was permitted in 1999 and removed in 2004 (Tank #5). With exception of the below-listed spill, no other releases or spills are associated with these listings. Based on the apparent absence of petroleum impacts and the regulatory status, these listings are not expected to represent a significant environmental concern.

- The subject property is also listed as an Orphan Site (See Section 4.2.5), identified as **Island Hills Golf Club** at County Road 93 (Lakeland Avenue), and is reported as Suffolk County Site #07235 as a UST/AST facility. The site is registered with a 2,000-gallon gasoline UST that was removed in 1986 (Tank #1), and a 1,000-gallon gasoline UST that was removed in 2010 (Tank #2). These are the same as the listing described above.

The subject property is also listed with a 275-gallon diesel AST that was installed in 1979 and removed in 1998 (Tank #3); a chemical storage container of unknown size that was removed in 1998; an active 300-gallon diesel AST that was permitted in 1999 (Tank #5); and a 1,000-gallon gasoline AST that was permitted in 2010 (Tank #6). With exception of the below-listed spill, no other releases or spills are associated with these listings. Based on the apparent absence of petroleum impacts and the regulatory status, these listings are not expected to represent a



significant environmental concern. Further information of tanks observed by Partner at the subject property is provided in Section 6.2.2.

- The subject property, identified as **Island Hills Golf Club** at 458 Lakeland Avenue, reported a release of gasoline on December 21, 2005, which reportedly impacted soil only (Spill #0511071). The subject property was formerly equipped with a 1,000-gallon gasoline underground storage tank (UST) that was removed in 2010 from the southwest portion of the property (Tank #2). The release occurred due to an apparent "bad check valve". The tank valve was reportedly repaired, and regulatory closure was obtained on March 21, 2006. As a result, the New York State Department of Environmental Conservation (NYSDEC) issued a No Further Action (NFA) letter to Island Hills Golf Club (responsible party) on March 31, 2006. A copy of the NFA letter is included in Appendix B of this report. Based on the regulatory closure, the former spill case is considered a historical recognized environmental condition, and no further action is considered necessary.

#### **4.2.3 Adjacent Property Listings**

Adjacent properties to the southeast, southwest and west were identified as NY Spills sites in the regulatory database report; and an adjacent property to the east was identified as a Historical Auto Station site in the regulatory database report, as discussed below:

- The property identified as **Unknown** at 67 Carrie Avenue, is located adjacent to the east of the subject property. This site reported a release of transformer oil on February 17, 2016, which reportedly impacted soil only (Spill #1511062). The release occurred due to an unidentified transformer incident, the responsible party is identified as Public Service Electric & Gas/ Long Island Power Authority (PSE&G/ LIPA), clean-up was pending, and regulatory closure was not reported. Based on the absence of significant petroleum-impacted soil, distance of the impacted soil to the subject property boundary, and the regulatory oversight, this listing is not expected to represent a significant environmental concern, and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.
- The property identified as **Curcio Residence** at 168 Terry Road, is located adjacent to the southwest of the subject property. This site reported a release of approximately 40-gallons of fuel oil #2 on January 7, 2012, which reportedly impacted soil only (Spill #1111813). The release occurred due to a hole in an AST, the spill was contained to the concrete floor in the basement and cleaned-up. The responsible party is identified as a private dwelling, and regulatory closure was obtained on January 31, 2012. Based on the absence of petroleum-impacted soil, distance of the impacted soil to the subject property boundary, and the regulatory closure, this listing is not expected to represent a significant environmental concern, and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.
- The property identified as **Unknown** at 640 Bohemia Parkway, is located adjacent to the west of the subject property. This site reported a release of approximately one-gallon of transformer oil on July 27, 2010, which reportedly impacted soil only (Spill #1004768). The release occurred due



to a downed pole, the responsible party is identified as National Grid/LIPA, and regulatory closure was obtained on June 6, 2011. Based on the removal of petroleum-impacted soil, distance of the impacted soil to the subject property boundary, and the regulatory closure, this listing is not expected to represent a significant environmental concern, and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.

- The property identified as **Long Island Touch-Up, Inc.** at 948 Chester Road, is located adjacent to the east of the subject property. This site is reported as a EDR Historical Auto Station as a General Automotive Repair Shop from 2011 to 2013. No release or spill is documented from this facility on any other database. Based on the absence of reported petroleum impact, distance of the impacted soil to the subject property boundary, and the absence of regulatory concern, this listing is not expected to represent a significant environmental concern, and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.

Based on the findings, vapor migration is not expected to represent a significant environmental concern at this time.

#### **4.2.4 Sites of Concern Listings**

No sites of concern are identified in the regulatory database report.

#### **4.2.5 Orphan Listings**

The subject property is identified as a AST/UST site in the regulatory database report, as previously discussed in Section 4.2.2.

A copy of the regulatory database report is included in Appendix C of this report.



## 5.0 USER PROVIDED INFORMATION AND INTERVIEWS

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *Brownfields Amendments*), the *User* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The *User* should provide the following information to the *environmental professional*. Failure to provide this information could result in a determination that *all appropriate inquiries* is not complete. The *User* is asked to provide information or knowledge of the following:

- Review Title and Judicial Records for Environmental Liens and AULs
- Specialized Knowledge or Experience of the User
- Actual Knowledge of the User
- Reason for Significantly Lower Purchase Price
- Commonly Known or *Reasonably Ascertainable* information
- Degree of Obviousness
- Reason for Preparation of this Phase I ESA

Fulfillment of these user responsibilities is key to qualification for the identified defenses to CERCLA liability. Partner requested our Client to provide information to satisfy User Responsibilities as identified in Section 6 of the ASTM guidance.

Pursuant to ASTM E1527-13, Partner requested the following site information from SRF Ventures (User of this report).

<b>User Responsibilities</b>				
<b>Item</b>	<b>Provided by User</b>	<b>Not Provided by User</b>	<b>Discussed Below</b>	<b>Does Not Apply</b>
Environmental Pre-Survey Questionnaire			X	
Title Records, Environmental Liens, and AULs			X	
Specialized Knowledge			X	
Actual Knowledge			X	
Valuation Reduction for Environmental Issues			X	
Identification of Key Site Manager	<b>Section 5.1.3</b>			
Reason for Performing Phase I ESA	<b>Section 1.1</b>			
Prior Environmental Reports		X		
Other		X		



## **5.1 Interviews**

### **5.1.1 Interview with Owner**

Mr. Bryan Devaux, subject property owner representative, was not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

According to Mr. Devaux, the subject property was developed in 1927 for commercial use. Prior to that, the subject property was undeveloped. Mr. Devaux further stated that there are no USTs, clarifiers, oil/water separators, groundwater monitoring wells, or hazardous substance use/storage/generation on the subject property to the best of his knowledge. According to Mr. Devaux, previous investigations were conducted, as further discussed in Section 5.2.6.

### **5.1.2 Interview with Report User**

Please refer to Section 5.2 below for information requested from the Report User. The information requested was not received prior to the issuance of this report. Because the Report User (Client) is a lender, it is understood that the Report User would not have knowledge of the property that would significantly impact our ability to satisfy the objectives of this assessment. The lack of this information is not considered to represent a significant data gap.

### **5.1.3 Interview with Key Site Manager**

Interview with Mr. Bryan Devaux, key site manager, is discussed in Section 5.1.1.

### **5.1.4 Interviews with Past Owners, Operators, and Occupants**

Interviews with past owners, operators, and occupants were not conducted since information regarding the potential for contamination at the subject property was obtained from other sources.

### **5.1.5 Interview with Others**

The subject property is not an abandoned property as defined in ASTM 1527-13; therefore, interviews with others were not performed.

## **5.2 User Provided Information**

### **5.2.1 Title Records, Environmental Liens, and AULs**

Partner was not provided with title records or environmental lien and AUL information for review as part of this assessment.

### **5.2.2 Specialized Knowledge**

No specialized knowledge of environmental conditions associated with the subject property was provided by the User at the time of the assessment.



### **5.2.3 Actual Knowledge of the User**

No actual knowledge of any environmental lien or AULs encumbering the subject property or in connection with the subject property was provided by the User at the time of the assessment.

### **5.2.4 Valuation Reduction for Environmental Issues**

No knowledge of valuation reductions associated with the subject property was provided by the User at the time of the assessment.

### **5.2.5 Commonly Known or Reasonably Ascertainable Information**

The User did not provide information that is commonly known or *reasonably ascertainable* within the local community about the subject property at the time of the assessment.

### **5.2.6 Previous Reports and Other Provided Documentation**

The following information was provided to Partner for review during the course of this assessment:

Phase II, Island Hills Golf Club, Sayville, New York, P.W. Grosser Consulting, Inc. (July 2006)

P.W. Grosser Consulting, Inc. (PWGC) prepared this report on behalf of R Squared LLC, to address fifteen recognized environmental conditions (RECs) identified in an April 2006 *Phase I Environmental Site Assessment Report* (Phase I) by PWGC. The 2006 Phase I Report was not provided for review; however, an updated 2014 Phase I Report is summarized below. Pertinent information contained in the PWGC Phase II report is as follows:

- PWGC reported that the subject property was operated as a golf course from 1927, and consisted of an 18-hole golf course with various buildings (including a club house, pool house, pro-shop, pump house, and central and southern maintenance buildings) covering approximately 113 acres. Paved parking areas for the Pool and Club Houses were located in the northeast portions of the subject property.
- PWGC field activities were performed in May 2006, and a total of 48 samples were collected (42 soil and 6 groundwater). Sample results indicated that further investigation and/or remedial action was warranted, including a Site-specific Soil Management Plan (SMP) with significant site-wide soil removal and further groundwater monitoring.
- PWGC reported that, "due to site access limitations, five leaching structures were not sampled; one associated with the Central Maintenance Building and four relative to the Club House." Further investigation/remediation for the septic/sanitary systems was recommended.
- Additionally, PWGC reported that "proper closure of below-grade structures and compliance with waste drum storage and storage tank regulations is necessary. Based upon site conditions it is likely that there is a former sanitary structure associated with the Pro-Shop and it is recommended that this structure be located, sampled, and properly closed in accordance with SCDHS [Suffolk County Department of Health Services] protocol. In addition, it is recommended that the waste drums in the landscape debris area and their contents be properly characterized and disposed, and a SCDHS compliant staging area be established. There are three issues associated with petroleum storage relative to the support buildings that require action. On-site



petroleum storage tanks are not in compliance and require registrations as well as upgrades. Also, there is an inactive underground storage tank located inside the Pro-Shop beneath the concrete floor in the golf cart storage area that should be registered and properly abandoned. In addition, relative to the Pro-Shop there is a fuel oil above ground storage tank that does not comply with SCDHS requirements, and it is recommended the tank be upgraded."

Review of 2006 Phase II Report Letter, PWGC (October 10, 2013)

PWGC prepared this letter review and reassessment of their 2006 Phase I and Phase II on behalf of R Squared LLC, in accordance with protocols of the SCHDS and New York State Department of Environmental Conservation (NYSDEC). Pertinent information contained in this report is as follows:

- The original reports included Parcels 1 and 2, which included residential lots and the Clubhouse parking lot, as well as the "primary" lot ("consisting of the golf course area under the TIC [unknown abbreviation]"). This letter reassessed the conclusions of the Phase II based on updated regulatory standards and practices.
- The first issue was related to the tank registration lapses and estimated costs to bring the site back into compliance with the SCHDS. Based on PWGC's experience, they believed that the SCDHS was less likely to levy fines; therefore, the initial proposal should be lower in cost.
- The second issue was associated with the abandonment of a 550-gallon underground storage tank (UST). Assuming that the tank had not leaked, PWGC stated that their original estimate was valid.
- Underground Injection Control (UIC; aka, septic system) structures were identified in the Phase II with elevated levels of dichlorobenzene in a sanitary leaching pool (S-4). As this system is located in the parking lot of the Clubhouse, it was not to be part of the proposed property transfer. Therefore, the remediation of remaining UIC structures would be less than originally proposed.
- Groundwater exceedances were identified in the Phase II Report, and revealed to include multiple metal exceedances. PWGC recommended re-collecting groundwater samples and analyzing for both total and dissolved metals, plus pesticides and herbicides.

The Phase II Report also identified pesticides (chlordane and heptachlor epoxide) and fungicides (mercury) in soils, which they recommended remediating via soil removal. Since the time of the 2006 recommendation, the NYSDEC has prepared risk-based soil objectives (NYSDEC CP-51/6 NYCRR Part 375). As stated by PWGC, "The newer soil cleanup objectives allow for less stringent cleanup objectives depending upon site use." As such, instead of the originally-proposed across-the-site soil removal, PWGC recommended an approach consisting of soil mixing and capping, which, "can be integrated into redevelopment of the property and avoid costly soil disposal." PWGC stated that they could not "estimate the differential cost to address the impacted soils during development, as the cost will be dependent upon the nature of the development and the total area to be developed, but the cost would be significantly less than the cost to remove soil across the entire property."



PWGC prepared this report on behalf of R Squared Real Estate Partners, LLC. The assessment was performed in general accordance with ASTM Standard E1527-13. The assessment consisted of a site reconnaissance, interviews with knowledgeable personnel, review of historical information; a review of federal, state and local regulatory databases; and included a limited asbestos survey and limited lead paint survey. Pertinent information contained in this report is summarized below:

- At the time of the 2014 assessment, the subject property was occupied by an active golf course.
- According to the PWGC report, the subject property was operated as a golf course since 1938 (other sources states 1927) , and was formerly occupied by undeveloped land.
- PWGC identified one 1,000-gallon gasoline AST and one 300-gallon diesel AST associated with the maintenance building in the southwest portion of the subject property, and one 550-gallon fuel oil AST was identified northeast of the Pro Shop building in the northeast portion of the subject property. In addition, a 550-gallon UST was identified by PWGC in the golf cart storage area of the Pro-shop.
- Oil and hazardous substances were identified at the subject property in the form of cleaners and paints in the Clubhouse building; the pool building contained empty five-gallon containers of chlorine; the maintenance building contained drums of motor oil, lubrication oil, five-gallon pails of waste oil, paint and paint thinner, and a 200-gallon polyethylene tank of liquid fertilizer; and a chemical storage trailer adjacent to the maintenance building contained herbicides, insecticides, and fungicides. No leaks, spills, or staining was observed around any of the stored materials.
- PWGC reviewed a previous Phase I Environmental Site Assessment report for the subject property prepared by PWGC and dated June 30, 2006. According to this previous report, similar recommendations (RECs) outlined in the 2014 report were provided.
- As part of the 2014 assessment, PWGC conducted a limited survey for the presence of asbestos-containing material (ACM) at the subject property. As a result of this limited survey, the only evidence of potential ACM that PWGC observed during the site reconnaissance was roof material and window caulking.

PWGC identified the following RECs/environmental concerns/non-ASTM scope issues/etc. and recommendations:

1. A closed 2005 spill on the property was related to a faulty valve connected to the former 1,000-gallon gasoline UST. This tank was identified during the previous Phase I (2006) and was removed prior to the 2014 inspection. Based upon this information, the spill associated with this tank was considered an HREC.
2. A 550-gallon UST was identified by PWGC in the golf cart storage area of the Pro Shop. In 2006, this UST was determined by PWGC to be inactive and was recommended to be abandoned. Based on the continued presence of the 550-gallon UST, this tank was still an REC.



3. PWGC identified potential subsurface impacts from storm-water drywells located throughout the property, floor drains in the buildings discharging to onsite sanitary systems, and a maintenance pit located in the South Maintenance Building. Several of these structures were reportedly sampled by PWGC and identified to be impacted in 2006; however, remediation was reportedly not performed. Based upon this information, these structures remained a REC in 2014.
4. The historical use of the subject property as a golf course, specifically herbicide and pesticide use, was considered a REC.

PWGC's recommendations included a Phase II to assess the cesspools, maintenance pit, and storm-water drywells via soil sampling; UST removal and sampling, as warranted; and stated that the herbicides and pesticides should be assessed if the current site use changes.

Site Remediation Results Letter/Report, PWGC (October 2015)

PWGC prepared this report to inform R Squared LLC and Hudson Realty Capital, Inc., of investigative and remedial activities which were performed in October 2015 to address the outstanding UIC structures and USTs across the subject property, as was identified during previous Phase I/II activities. Pertinent information contained in this report is as follows:

- Identified Concerns:
  - A suspected UST was identified in the golf cart parking area of the Pro Shop.
  - A sanitary vent was identified in the golf cart parking area of the Pro Shop, which appeared to be connected to a sanitary system located south of the building. The potential for a former cesspool was present and could not be ruled out.
  - Central Maintenance/Bathroom building had an associated onsite sanitary system which was not sampled in 2006.
  - Two onsite sanitary systems associated with the Clubhouse were found to have elevated concentrations in 2006.
  - Three issues were identified associated with the South Maintenance building, including a storm drain (SD-3), which had elevated levels of mercury; a cesspool (SS-6) that contained elevated levels of two SVOCs; and a vehicle maintenance pit was identified and contained visibly impacted sediments.
- Corrective Actions:
  - A shallow excavation was conducted in the Pro Shop and a 330-gallon UST was encountered and removed. No signs of contamination were noted and there were no signs of holes in the UST. The tank was cleaned and properly disposed of. A soil sample was collected and no compounds were detected over the *NYSDEC CP-51 Unrestricted Use Soil Cleanup Objective*. "Based upon these results, PWGC has no further recommendations with regards to the Pro Shop UST."
  - A test pit was conducted near the sanitary vent in the Pro Shop. As reported by PWGC, "Excavation of the area revealed the presence of a sanitary pipe which ran south towards the known cesspool to the south. No evidence of an additional UIC structure, such as



- pre-cast rings, block, or piping was noted in the exploratory test pit. Based upon the lack of such evidence, PWGC had no further recommendations with regard to this concern.”
- PWGC collected a sediment sample from the cesspool (SS-5) associated with the Central Maintenance Area and compared to *SCDHS SOP 9-95 Action Levels*. There were no exceedances; therefore, PWGC stated that remediation of the cesspool is not required.
  - To investigate the UIC structures associated with the Clubhouse, PWGC completed geophysical assessment to locate three cesspools associated with septic tank SS-3. Remediation was performed via pumping out the septic tank with subsequent inspection (no crack or holes were observed). As the structure was solid, no sampling was required. The three overflow pools were pumped out and sediments were removed until visibly clean sediments were encountered. Approximately 1-2 feet of sediment was removed and endpoint samples were collected. There were no exceedances; therefore, PWGC stated that remediation of the cesspool is not required.
  - To investigate and remediate the South Maintenance Building, the cesspool associated with sanitary system SS-6 was located and approximately 2-3 of sediment was removed, and an endpoint sample was collected. Additionally, two storm drains associated with the building were cleaned and sediments were removed. Upon completion, endpoint samples were collected from the base of each structure. Finally, a guzzler truck was employed to remove sediments from the base of the maintenance pit. Approximately one foot of sediment was removed, at which point a 1.5 foot by 1.5-foot hole was observed in the bottom of the pit to act as a drain. PWGC directed removal of an additional 1.5 feet of sediment, at which point an endpoint sample was collected. All samples were compared to the SCDHS Action Levels; no exceedances were noted; therefore, PWGC stated that no further investigation/remediation was warranted.
  - PWGC stated that, “With the completion of this investigative and remedial effort, the outstanding UST and UIC issues as identified in the 2006 PWGC Phase II assessment have been addressed and PWGC has no further recommendations at this time.”

Soil Management Cost Assessment Letter, completed by PWGC (October 2015)

PWGC prepared this Letter to inform R Squared LLC and Hudson Realty Capital, Inc., of costs associated with soil management due to site use change:

- During the 2006 Phase I/II assessment, elevated concentrations of various chlorinated pesticides and metals were identified. As stated by PWGC, “the presence of these compounds was consistent with the application of turf management chemical[s] on the golf course since the 1920’s when golf course operations began.” Initially PWGC had no remedial recommendations since the site use was to remain unchanged; however, management would be required to remediate in the future if the site use would change.
- PWGC stated that the unique nature of golf courses tends to keep residual turf chemicals within the top 6” of the soil since site soils are not significantly disturbed once the course is established.



- PWGC went on to state that vertical mixing would be a viable, more cost-efficient option, rather than excavation and disposal. "The shallow soils would be mixed with cleaner, deeper soil in order to dilute soil concentration to an acceptable level."
- Mixing would be used in conjunction with typical construction procedures—removal of the "top two feet of surface soils/top soil so that grading of the sub base can be performed. At the completion of construction, the surface soils are returned during final site grading. It is anticipated that the normal removal, stockpiling, and re-grading of the sites will be sufficient to vertically mix the soils and that additional mitigation measure would not be required."
- PWGC states that conducting additional sampling of soil and the installation of monitoring wells would be required in order to further assess the residual turf maintenance chemicals at the site and assess the soil mixing requirements. After which, a Soil Management Plan (SMP) would be completed and submitted to local/county regulatory agencies, as appropriate. PWGC also stated that perimeter air monitoring would likely be required for dust management, and regular soil sampling would be required to assess whether the mixing effort was sufficient. Finally, a final engineering report would be prepared to summarize all activities for this project and provide compliance with the SMP. Additionally, abandonment of current storm drains and cesspools, and the removal of the AST associated with the Pro Shop would also be completed.
- Based on this plan of action, PWGC provided costs under two scenarios:
  - *High-Density Development* (high density housing), which would be less costly, as parking areas and buildings would be considered as "caps" for the soils and would require less testing. Additionally, soil guidance values are less strict than the Single-Family Home scenario.
  - *Single Family Homes*, which would include development of property with family homes on one acre lots. As there would be less capped areas, there would be additional sampling requirements. Additionally, soil guidance values are stricter, so PWGC anticipated that supplemental clean fill might be required to obtain the desired guidance values.

As such, PWGC estimated a total of \$262,000 for the High-Density scenario, and \$469,845 for the Single-Family Home Scenario.

Copies of pertinent pages reviewed are included in Appendix B of this report.



## 6.0 SITE RECONNAISSANCE

The weather at the time of the site visit was overcast and raining. Refer to Section 1.5 for limitations encountered during the field reconnaissance and Sections 2.1 and 2.2 for subject property operations. The table below provides the site assessment details:

### ***Site Assessment Data***

**Site Assessment Performed By:** David Bachman  
**Site Assessment Conducted On:** September 19, 2017

The table below provides the subject property personnel interviewed during the field reconnaissance:

### ***Site Visit Personnel for 500 Lakeland Avenue (Subject Property)***

<b>Name</b>	<b>Title/Role</b>	<b>Contact Number</b>	<b>Site Walk* Yes/No</b>
Mr. Bryan Devaux	Key Site Manager	(631) 521-4889	Yes
Mr. Frank Cramer	Maintenance Supervisor	(631) 414-8407	Yes

\* Accompanied Partner during the field reconnaissance activities and provided information pertaining to the current operations and maintenance of the subject property

Environmental concerns were identified during the onsite reconnaissance related to current/former ASTs/USTs, and indications of former subsurface investigations, as further discussed in Sections 6.1 and 6.2.

## **6.1 General Site Characteristics**

### ***6.1.1 Solid Waste Disposal***

Due to the vacant status of the subject property, no solid waste is currently generated at the subject property.

### ***6.1.2 Sewage Discharge and Disposal***

Sanitary discharges on the subject property were previously directed into individual septic systems, as further discussed in Section 6.1.7.

### ***6.1.3 Surface Water Drainage***

Storm water is removed from the subject property primarily by ground infiltration. Site storm water from roofs, landscaped areas, and paved areas is directed to on-site dry wells, which are discussed in Section 5.2.6.

The subject property is not mapped as a designated wetland area, based on information obtained from the United States Fish & Wildlife Service; however, a comprehensive wetlands survey would be required in order to formally determine actual wetlands on the subject property. No surface impoundments, apparent wetlands, natural catch basins, settling ponds, or lagoons are located on the subject property. Drywells were identified on the subject property, as discussed in Section 5.2.6.



#### **6.1.4 Source of Heating and Cooling**

Heating and cooling systems as well as domestic hot water equipment were previously fueled by electricity, natural gas, and fuel oil provided by PSE&G/LIPA (electric), National Grid (natural gas), and fuel oil (two single-family houses, Pro Shop). The mechanical system for the Clubhouse Building was comprised of a split system with central units and interior air-handlers, and rooftop-mounted packaged electric/natural gas split HVAC units. Natural gas-fired boilers heated the maintenance building, and oil-fired boilers were observed in the Pro Shop and two single-family houses. Hot water was provided by central natural gas boiler units in the Clubhouse Building, and individual natural gas/electric hot water heaters in the other buildings.

#### **6.1.5 Wells and Cisterns**

No aboveground evidence of wells or cisterns was observed during the site reconnaissance.

#### **6.1.6 Wastewater**

Domestic wastewater generated at the subject property was previously disposed by means of septic systems. No industrial process is currently performed at the subject property.

#### **6.1.7 Septic Systems**

Individual septic systems were observed and reported on the subject property, discussed as follows:

- The Clubhouse was reportedly serviced by three septic systems. The northern portion of the Clubhouse (men's and women's locker rooms, small laundry room, and a bar area) was split into two sanitary systems north and west of the building, and the southern portion of the Clubhouse (kitchen and banquet room bars) was serviced by a separate septic system located under the parking lot east of the Clubhouse building. Grease from kitchen wastes was separated in a grease trap prior to discharge into the septic system.
- The sanitary system associated with the Maintenance Building is located below grade south of the building.
- The sanitary system associated with the Pro Shop is located south of the building.

#### **6.1.8 Additional Site Observations**

No additional general site characteristics were observed during the site reconnaissance.

### **6.2 Potential Environmental Hazards**

#### **6.2.1 Hazardous Substances and Petroleum Products Used or Stored at the Site**

Partner identified hazardous substances used, stored, and/or generated on the subject property as noted in the following table:

<b>Hazardous Substances and/or Petroleum Products Noted Onsite</b>				
<b>Substance</b>	<b>Container Size</b>	<b>Location</b>	<b>Nature of Use</b>	<b>Disposal Method</b>
Hydraulic oil	2 x five-gallon buckets	Maintenance building	Repair Activities	Previously transported off-site by Safety-Kleen



#### ***Hazardous Substances and/or Petroleum Products Noted Onsite***

<b>Substance</b>	<b>Container Size</b>	<b>Location</b>	<b>Nature of Use</b>	<b>Disposal Method</b>
Oils/ lubricants	Various small commercial units	Maintenance building	Repair Activities	Previously transported off-site by Safety-Kleen
Paints	One-gallon cans	450 Lakeland Avenue	Routine Maintenance	N/A
Fuel oil	500-gallon AST	Pro Shop	Building heat	N/A

The materials were found to be properly labeled and stored at the time of the assessment with no signs of leaks, stains, or spills. Secondary containment is not provided. Based on the nature of use, overall small quantities observed, and lack of violations on-file with the local fire department, these materials are not expected to represent a significant environmental concern.

#### ***6.2.2 Aboveground & Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)***

Partner observed one 500-gallon aboveground storage tank (AST) and two 275-gallon ASTs for the storage of fuel oil on the subject property. The 500-gallon AST is located in the northeast portion of the subject property, to the northeast of the Pro Shop building, and the two 275-gallon ASTs are located in the basements of the two single-family houses. No staining, leaks or spills were noted in the vicinity of the ASTs, and no releases have been reported.

USTs and ASTs removed from the property are discussed in Section 5.2.6.

#### ***6.2.3 Evidence of Releases***

No significant spills, stains, or other indications that a surficial release has occurred at the subject property were observed. However, oil staining was observed on the concrete floor around the 275-gallon fuel oil AST at 458 Lakeland Avenue.

#### ***6.2.4 Polychlorinated Biphenyls (PCBs)***

Older transformers and other electrical equipment could contain PCBs at a level that subjects them to regulation by the U.S. EPA. PCBs in electrical equipment are controlled by United States Environmental Protection Agency regulations 40 CFR, Part 761. Under the regulations, there are three categories into which electrical equipment can be classified: 1) Less than 50 parts per million (ppm) of PCBs – “Non-PCB;” 2) 50 ppm-500 ppm – “PCB-Contaminated;” and, 3) Greater than 500 ppm – “PCB-Containing.” The manufacture, process, or distribution in commerce or use of any PCB in any manner other than in a totally enclosed manner was prohibited after January 1, 1977.

The on-site reconnaissance addressed indoor and outdoor transformers that may contain PCBs. One pad-mounted transformer was observed on the subject property. The transformer is not labeled indicating PCB content. No staining or leakage was observed in the vicinity of the transformer. PSE&G maintains ownership and operational responsibility for the transformer. Based on the good condition of the equipment, the transformer is not expected to represent a significant environmental concern.



Additionally, no other potential PCB-containing equipment (interior transformers, oil-filled switches, hoists, lifts, dock levelers, hydraulic elevators, balers, etc.) was observed on the subject property during Partner's reconnaissance.

#### **6.2.5 Strong, Pungent, or Noxious Odors**

No strong, pungent, or noxious odors were evident during the site reconnaissance.

#### **6.2.6 Pools of Liquid**

No pools of liquid were observed on the subject property during the site reconnaissance.

#### **6.2.7 Drains, Sumps, and Clarifiers**

Floor drains were observed in on-site bathrooms and the Clubhouse kitchen. As discussed in Section 6.1.7, these floor drains discharge to individual septic systems.

No other drains, sumps, or clarifiers, other than those associated with storm water removal, were observed on the subject property during the site reconnaissance.

#### **6.2.8 Pits, Ponds, and Lagoons**

No pits, ponds, or lagoons were observed on the subject property.

#### **6.2.9 Stressed Vegetation**

No stressed vegetation was observed on the subject property.

#### **6.2.10 Additional Potential Environmental Hazards**

No additional environmental hazards, including landfill activities or radiological hazards, were observed.

### **6.3 Non-ASTM Services**

#### **6.3.1 Asbestos-Containing Materials (ACMs)**

Asbestos is the name given to a number of naturally occurring, fibrous silicate minerals mined for their useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. The Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 requires certain construction materials to be *presumed* to contain asbestos, for purposes of this regulation. All thermal system insulation (TSI), surfacing material, and asphalt/vinyl flooring that are present in a building constructed prior to 1981 and have not been appropriately tested are "presumed asbestos-containing material" (PACM).

The subject property buildings were constructed between 1927 and 1957. Partner has conducted a limited, visual evaluation of accessible areas for the presence of suspect ACMs at the subject property. The objective of this visual survey was to note the presence and condition of suspect ACM observed. Please refer to the table below for identified suspect ACMs:



### ***Suspect ACMs***

<b>Suspect ACM</b>	<b>Location</b>	<b>Friable Yes/No</b>	<b>Physical Condition</b>
Drywall Systems	Throughout Building Interiors	No	Good
Floor Tiles	Throughout Building Interiors	No	Good
Floor Tile Mastic	Throughout Building Interiors	No	Good
Roofing Materials	Roofs	No	Good
Stucco, vinyl, wood	Throughout Building Exteriors	No	Good

The limited visual survey consisted of noting observable materials (materials which were readily accessible and visible during the course of the site reconnaissance) that are commonly known to potentially contain asbestos. This activity was not designed to discover all sources of suspect ACM, PACM, or asbestos at the site; or to comply with any regulations and/or laws relative to planned disturbance of building materials such as renovation or demolition, or any other regulatory purpose. Rather, it is intended to give the User an indication if significant (significant due to quantity, accessibility, or condition) potential sources of ACM or PACM are present at the subject property. Additional sampling, assessment, and evaluation will be warranted for any other use.

Partner was not provided building plans or specifications for review, which may have been useful in determining areas likely to have used ACM.

According to the US EPA, ACM and PACM that is intact and in good condition can, in general, be managed safely in-place under an Operations and Maintenance (O&M) Program until removal is dictated by renovation, demolition, or deteriorating material condition. Prior to any disturbance of the construction materials within this facility, a comprehensive ACM survey is recommended.

### **6.3.2 Lead-Based Paint (LBP)**

Lead is a highly toxic metal that affects virtually every system of the body. LBP is defined as any paint, varnish, stain, or other applied coating that has 1 mg/cm<sup>2</sup> (or 5,000 ug/g or 0.5% by weight) or more of lead. Congress passed the Residential Lead-Based Paint Hazard Reduction Act of 1992, also known as "Title X", to protect families from exposure to lead from paint, dust, and soil. Under Section 1017 of Title X, intact LBP on most walls and ceilings is not considered a "hazard," although the condition of the paint should be monitored and maintained to ensure that it does not become deteriorated. Further, Section 1018 of this law directed the Housing and Urban Development (HUD) and the US EPA to require the disclosure of known information on LBP and LBP hazards before the sale or lease of most housing built before 1978.

Based on the age of the subject property buildings (pre-1978), there is a potential that LBP is present. Interior and exterior painted surfaces were observed in good condition and therefore not expected to represent a "hazard," although the condition of the paint should be monitored and maintained to ensure that it does not become deteriorated.



### 6.3.3 Radon

Radon is a colorless, odorless, naturally occurring, radioactive, inert, gaseous element formed by radioactive decay of radium (Ra) atoms. The US EPA has prepared a map to assist National, State, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, according to the table below:

<b>EPA Radon Zones</b>		
<b>EPA Zones</b>	<b>Average Predicted Radon Levels</b>	<b>Potential</b>
Zone 1	Exceed 4.0 pCi/L	Highest
Zone 2	Between 2.0 and 4.0 pCi/L	Moderate
Zone 3	Less than 2.0 pCi/L	Low

It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the US EPA recommends site-specific testing in order to determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures.

Radon sampling was not conducted as part of this assessment. Review of the US EPA Map of Radon Zones places the subject property in Zone 3. Based upon the radon zone classification, radon is not considered to be a significant environmental concern.

### 6.3.4 Lead in Drinking Water

According to available information, a public water system operated by the Suffolk County Water Authority (SCWA) serves the subject property vicinity (Distribution Area 1). The source of public water for the Town of Islip is groundwater obtained from four (4) layered sandy geological formations that make up the Long Island Aquifer System. According to the 2015 SCWA Water Quality Report, water supplied to the subject property is in compliance with all State and Federal regulations pertaining to drinking water standards, including lead and copper. Water sampling was not conducted to verify water quality.

### 6.3.5 Mold

Molds are microscopic organisms found virtually everywhere, indoors and outdoors. Mold will grow and multiply under the right conditions, needing only sufficient moisture (e.g. in the form of very high humidity, condensation, or water from a leaking pipe, etc.) and organic material (e.g., ceiling tile, drywall, paper, or natural fiber carpet padding).

Partner observed accessible, interior areas for the subject property buildings for significant evidence of mold growth with the exceptions detailed in Section 1.5 of this report; however, this ESA should not be used as a mold survey or inspection. Additionally, this limited assessment was not designed to assess all areas of potential mold growth that may be affected by mold growth on the subject property. Rather, it is intended to give the client an indication as to whether or not conspicuous (based on observed areas) mold growth is present at the subject property. This evaluation did not include a review of pipe chases, mechanical systems, or areas behind enclosed walls and ceilings.



The following indications of water damage or mold growth were observed during Partner's visual assessment:

#### ***Mold Observations***

<b>Location of area affected</b>	<b>Condition</b>
Clubhouse basements	Water staining, musty odor
Pro Shop lower level	Apparent water staining and seepage
Pool house	Apparent water staining, wood deterioration
458 Lakeland Avenue	Musty odor, apparent water staining on floors and walls in basement

#### **6.4 Adjacent Property Reconnaissance**

The adjacent property reconnaissance consisted of observing the adjacent properties from the subject property premises. No items of environmental concern were identified on the adjacent properties during the site assessment, including hazardous substances, petroleum products, ASTs, USTs, evidence of releases, PCBs, strong or noxious odors, pools of liquids, sumps or clarifiers, pits or lagoons, stressed vegetation, or any other potential environmental hazards.



## 7.0 FINDINGS AND CONCLUSIONS

---

### Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during this assessment:

- Based on the historical information review, a commercial golf course operated at the subject property between 1927 and 2015. Based on previous studies at the subject property performed in 2006 and 2014, golf course-related chemicals (i.e., pesticides, herbicides, and fertilizers), were used and stored onsite. According to a subsurface investigation performed in 2006, 29 of 30 sample locations at the subject property exhibited surface soil sample results that exceeded regulatory criteria for semi-volatile organic compounds (SVOCs), metals, and/or pesticides. At some locations, the exceedances were as much as 100 times the regulatory level. Based on these reasons, Partner concludes that the former use of agricultural chemicals is expected to represent a significant environmental concern at this time. It should be noted that Partner has not received a response to a FOIA request from the Sussex County Health Department for inclusion into this report. Based on the soil contamination information regarding the subject property, the former golf course facility is considered a *recognized environmental condition*.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

- Partner did not identify any CRECs during this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during this assessment:

- The subject property was formerly equipped with a 1,000-gallon gasoline underground storage tank (UST) that was removed in 2010 from the southwest portion of the property (Tank #2). A release from this UST was reported on December 21, 2005, which reportedly impacted soil only (Spill #0511071). The release occurred due to an apparent "bad check valve". The tank valve was reportedly repaired, and regulatory closure was obtained on March 21, 2006. As a result, the New York State Department of Environmental Conservation (NYSDEC) issued a No Further Action (NFA) letter to Island Hills Golf Club (responsible party) on March 31, 2006. A copy of the NFA letter is included in Appendix B of this report. Based on the regulatory closure, the former spill



case is considered a historical recognized environmental condition, and no further action is considered necessary.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during this assessment:

- Due to the age of the subject property buildings, there is a potential that asbestos-containing material (ACM) and/or lead-based paint (LBP) are present. Overall, all suspect ACMs and painted surfaces were observed in good condition and do not pose a health and safety concern to the occupants of the subject property at this time. Identified suspect ACMs at the subject property would need to be sampled to confirm the presence or absence of asbestos prior to proposed demolition activities to prevent potential exposure to workers.
- The subject property is reported as a registered aboveground/underground storage tank (AST/UST) facility (Suffolk County Site #07235 and #11452). The site is registered with a 2,000-gallon gasoline UST that was installed in 1977 and removed in 1986 (Tank #1), and a 1,000-gallon gasoline UST that was installed in 1986 and removed in 2010 (Tank #2).

The subject property is also listed with a 275-gallon diesel AST that was installed in 1979 and removed in 1998 (Tank #3); a chemical storage container of unknown size that was removed in 1998 (Tank #4), and a 300-gallon diesel AST that was permitted in 1999 and removed in 2004 (Tank #5). No significant releases or spills are associated with these listings. Based on the apparent absence of petroleum impacts and the regulatory status, these listings are not expected to represent a significant environmental concern.

- Various environmental-related reports, figures, and data was provided to the Client and, subsequently Partner for review. The information details remedial activities onsite over the last 11 years and correlates to the information obtained and reviewed by Partner during the course of this assessment. It outlines multiple phases of UST, AST, sanitary system, dry well, and storm drain sampling with only historical use soil remediation remaining. Based on the remedial investigation conducted to date, these historical environmental concerns are not expected to represent a significant environmental concern.

### **Conclusions, Opinions, and Recommendations**

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 500 Lakeland Avenue in the Hamlet of Sayville, Town of Islip, Suffolk County, New York (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed evidence of recognized environmental conditions and/or environmental issues in connection with the subject property. Based on the conclusions of this assessment and on the review of available data and the third-party provided reports, Partner concurs with P.W. Grosser Consulting (PWGC) investigative/remedial work conducted to-date, as well as their conclusions and recommendations for soil management/remediation. All work conducted to date (i.e., provided for



review) appears to have been completed in accordance with and in respect to the appropriate regulatory and industry standards:

- Partner agrees that further management of onsite soils will be required if the subject property use changes, and that vertical mixing would be the most cost-efficient method for the amount of soil located at the Site.
- Furthermore, Partner concurs with PWGC scope of work. A Site Management Plan should be developed and approved by the appropriate regulatory agencies; perimeter air monitoring is usually required during projects of this scope; and soil sampling throughout the process will be necessary.
- Partner agrees that, prior to construction activities, all remaining environmental structures (storm drains and cesspools) should be closed and sampled as appropriate. Any remaining ASTs should be cleaned and properly disposed of. Soil beneath each AST should be sampled if there is any indication of staining, leakage, or other visual signs of possible AST failure (e.g., holes, pitting, corrosion, etc.).

Partner agrees that the dual scenario costing presented by PWGC is appropriate and the costs associated with each scenario appear reasonable based on the information provided. PWGC assumes all soil will remain onsite (to be reused during final site grading); as such, PWGC proposed costs do not include soil disposal. It should be noted that final construction plans or soil disposal, if needed, may affect cost overall.

Finally, Partner recommends that suspect ACMs at the subject property should be sampled to confirm the presence or absence of asbestos prior to proposed demolition activities.



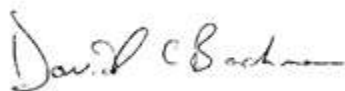
## 8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

---

Partner has performed a Phase I Environmental Site Assessment of the property located at 500 Lakeland Avenue in the Hamlet of Sayville, Town of Islip, Suffolk County, New York in general conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

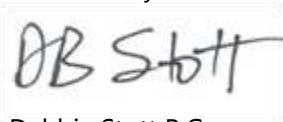
By signing below, Partner declares that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR §312. Partner has the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. Partner has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:



David Bachman  
Environmental Professional

Reviewed By:



Debbie Stott P.G.  
Senior Author



## 9.0 REFERENCES

---

### Reference Documents

American Society for Testing and Materials (ASTM), *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation: E1527-13.

Environmental Data Resources (EDR), *Radius Report, Inquiry Number: 5045648.2s*; September 11, 2017.

Federal Emergency Management Agency (FEMA), Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Rate Map (FIRM), accessed via internet, September 2017.

P.W. Grosser Consulting, Inc. (PWGC), *Phase II*, July 2006.

PWGC, *Review of 2006 Phase II Report Letter*, October 10, 2013.

PWGC, *Phase I Environmental Site Assessment*, December 2014.

PWGC, *Site Remediation Results Letter/Report*, October 2015.

United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), *Web Soil Survey*, accessed via the internet, September 2017.

United States Environmental Protection Agency (USEPA), *EPA Map of Radon Zones* (Document EPA-402-R-93-071), accessed via the internet, September 2017.

United States Fish & Wildlife Service (USFWS), *National Wetlands Inventory (NWI) mapping*, accessed via the internet, September 2017.

United States Geological Survey (USGS), Topographic Map 1995, 7.5-minute series, accessed via internet, September 2017.

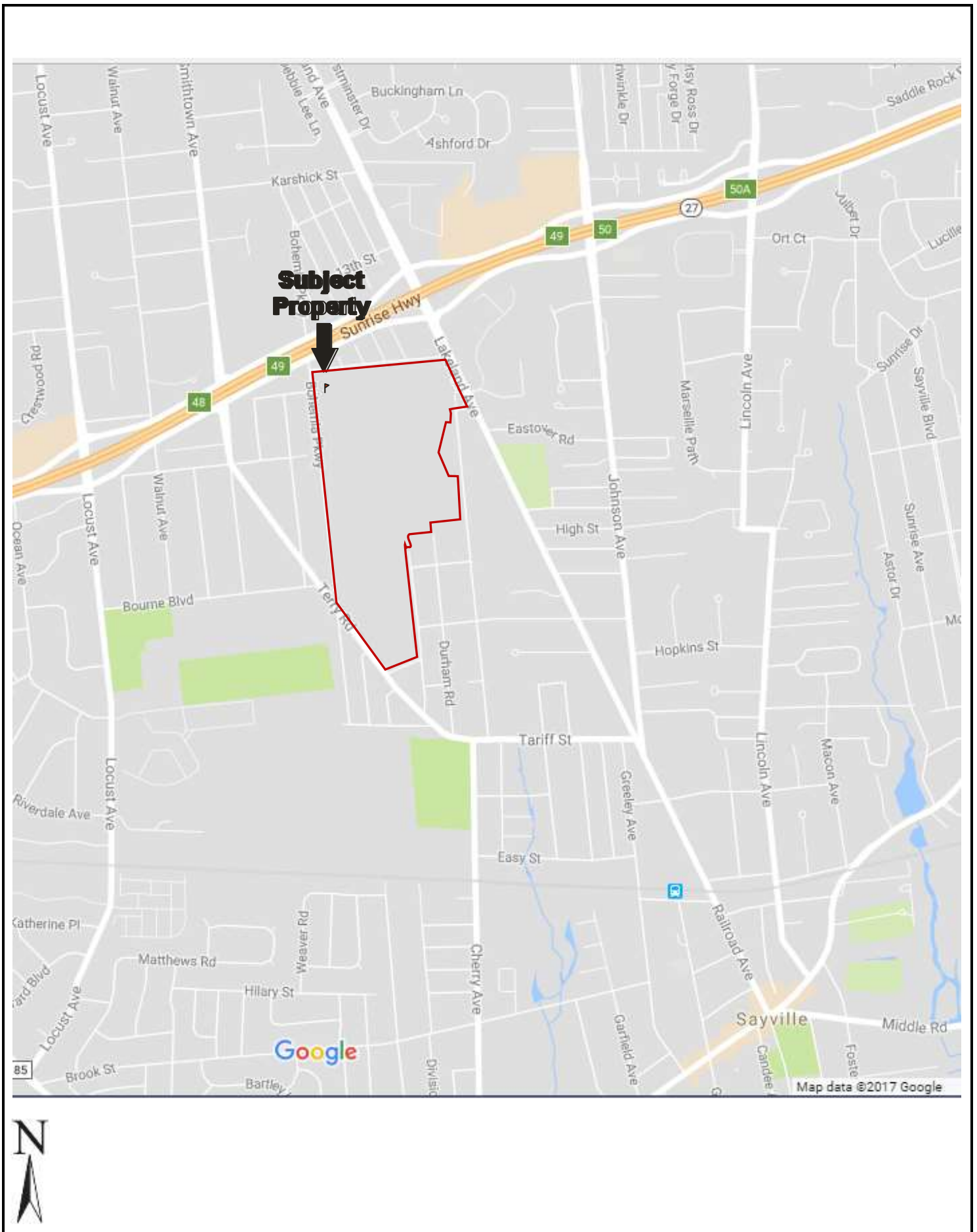


## **FIGURES**

---

- 1 SITE LOCATION MAP**
- 2 SITE PLAN**
- 3 TOPOGRAPHIC MAP**





**FIGURE 1: SITE LOCATION MAP**  
Project No. 17-196398.1

Drawing Not to Scale

**PARTNER**





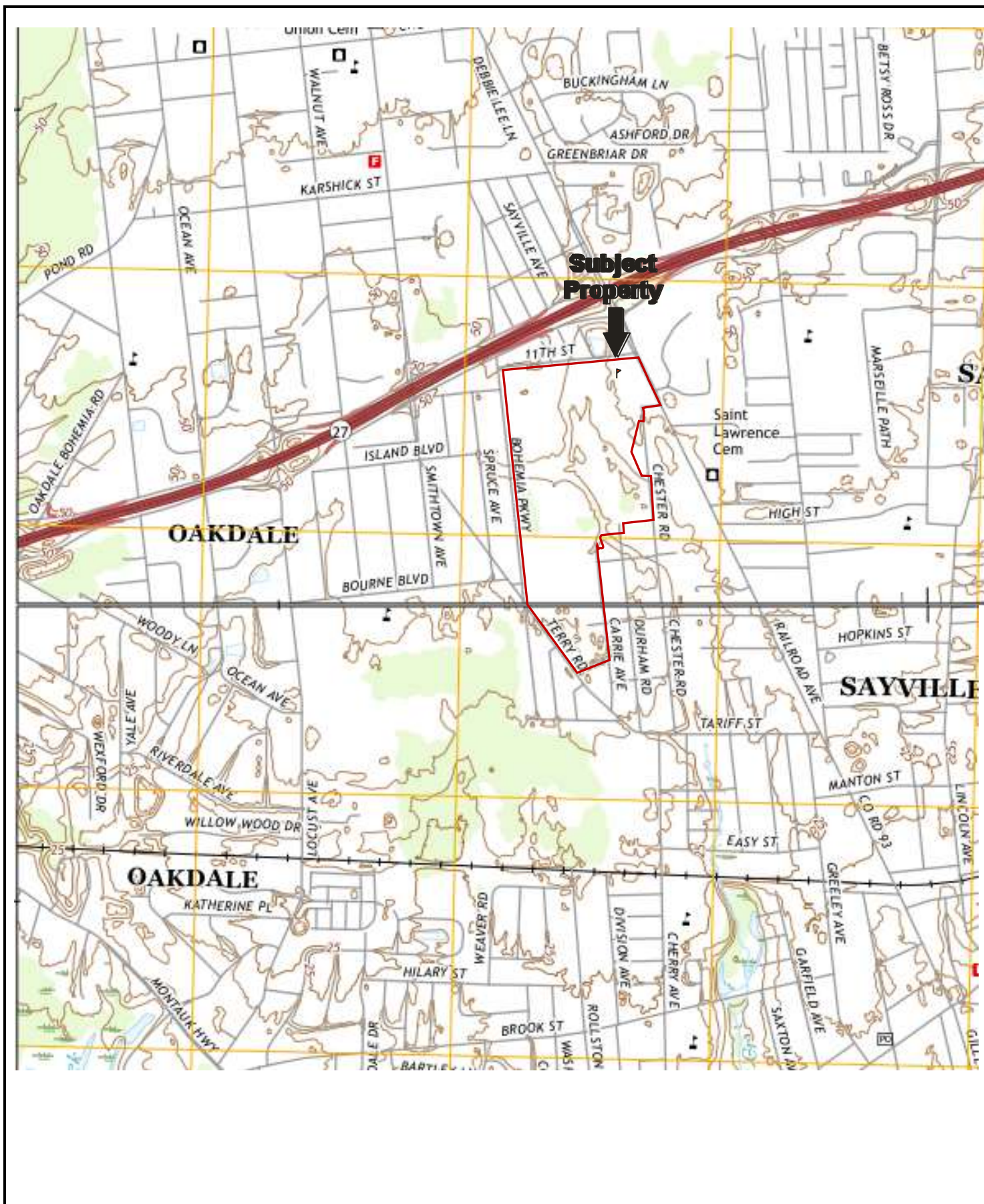
KEY:

Subject Site 

**FIGURE 2: SITE PLAN**  
Project No. 17-196398.1

**PARTNER**





USGS 7.5 Minute *Patchogue/ Sayville, NY* Quadrangles

Created: 2016

**FIGURE 3: TOPOGRAPHIC MAP**  
Project No. 17-196398.1

**PARTNER**



## **APPENDIX A: SITE PHOTOGRAPHS**

---





1. View looking south at the northeast side of the subject property across Lakeland Avenue.



2. View looking west at 11th Street.



3. View looking southwest at the north side of the Clubhouse building.



4. View looking north at the northeast side of the subject property.



5. View looking north at the southeast side of the Clubhouse building showing the main septic field.



6. View looking west at the southeast side of the Clubhouse building.





7. View looking southeast at the main septic field.



8. View looking south at the pad-mounted transformer.



9. View looking south at the northeast side of the Clubhouse building.



10. View looking south at the north side of the Clubhouse building.



11. View looking south at the north-central side of the Clubhouse building.



12. View looking south at the northwest side of the Clubhouse building.





13. View looking southwest at the north side of the Pool-house building.



14. View looking north at the south side of the Pool-house building.



15. View looking northwest inside the snack bar.



16. View looking northeast inside the snack bar.



17. View looking north at the pool and south side of the Pool-house building.



18. View looking south at the Pro Shop.





19. View looking southeast in the western portion of the subject property.



20. View looking west in the central portion of the subject property.



21. View looking south in the eastern portion of the subject property.



22. View looking west at the former driving range in the northeast portion of the subject property.



23. View looking west in the northeastern portion of the subject property.



24. View looking west in the northern portion of the subject property.





25. View looking southeast at 450 Lakeland Avenue.



26. View of the fill port and vent pipe at 450 Lakeland Avenue.



27. View of the 275-gallon AST at 450 Lakeland Avenue.



28. View of the floor under the 275-gallon AST at 450 Lakeland Avenue.



29. View of the boiler at 450 Lakeland Avenue.



30. View of the basement at 450 Lakeland Avenue.





31. View of the basement at 450 Lakeland Avenue.



32. View of a basement bedroom at 450 Lakeland Avenue.



33. View of a basement bedroom at 450 Lakeland Avenue.



34. View of the first floor at 450 Lakeland Avenue.



35. View of the kitchen at 450 Lakeland Avenue.



36. View of the living room at 450 Lakeland Avenue.





37. View of paints at 450 Lakeland Avenue.



38. View of the attic bedroom at 450 Lakeland Avenue.



39. View looking northeast at 458 Lakeland Avenue.



40. View looking north at 458 Lakeland Avenue.



41. View of 458 Lakeland Avenue first floor.



42. View of 458 Lakeland Avenue kitchen.





43. View of 458 Lakeland Avenue living room.



44. View of 458 Lakeland Avenue first floor bathroom.



45. View of 458 Lakeland Avenue basement.



46. View of 458 Lakeland Avenue basement.



47. View of 458 Lakeland Avenue fuel oil AST.



48. View of 458 Lakeland Avenue boiler.





49. View looking south at golf cart shop roof.



50. View looking east at the 500-gallon fuel oil AST for the Pro Shop.



51. View looking east at the Pro Shop.



52. View looking southeast at golf cart storage building.



53. View looking southeast inside the Pro Shop.



54. View of former golf bag storage under the Pro Shop.





55. View looking south inside the golf cart storage building.



56. View of water seepage inside the golf cart storage building.



57. View looking northwest under the Pro Shop, showing the area of the former UST.



58. View looking west under the Pro Shop, showing the area of the former UST.



59. View looking west at the south side of the subject property.



60. View looking north in the southeast portion of the subject property.





61. View looking north in the southwest portion of the subject property.



62. View looking north in the central portion of the subject property.



63. View looking northeast at the maintenance building.



64. View looking east at the south end of the maintenance building.



65. View looking north at the west side of the maintenance building.



66. View looking north at the former 2,000-gallon gasoline AST location.





67. View of the maintenance pit in the maintenance building.



68. View looking north in the maintenance building.



69. View looking southeast at the main entrance to the Clubhouse building.



70. View looking west at the main lobby in the Clubhouse building.



71. View of a banquet room.



72. View of a banquet room.





73. View of the kitchen.



74. View of the kitchen stove area.



75. View of kitchen floor staining.



76. View of the kitchen.



77. View of the original cooler.



78. View inside of the original cooler.





79. View of the kitchen basement.



80. View of the kitchen basement, showing compressors.



81. View of the kitchen fire retardant system in the kitchen basement.



82. View of a kitchen basement floor drain.



83. View looking west at the southern banquet room.



84. View looking east at the southern banquet room.





85. View looking east at the northern bar room.



86. View looking northeast at the northern bar.



87. View of typical bathroom.



88. View of typical locker room.



89. View of the northeastern basement stairs.



90. View of the northeastern basement.





91. View of the hot water heaters in the northeastern basement.



92. View of the sump in the northeastern basement.



93. View looking northeast at the men's locker room.



94. View looking southwest at the men's locker room.



95. View of the golf club repair machine.



96. View of the slop sink in the golf club repair shop.





97. View of the men's locker room washers and dryer.



98. View of the laundry room floor.



99. View of the men's sauna.



100. View of the men's shower room.



101. View of the men's bathroom.



102. View of an HVAC air handler unit.





103. View of women's locker room.



104. View of women's bathroom.



105. View of the women's locker room washer and dryer.



106. View of typical bathroom.



107. View looking north at Bohemia Parkway along the west side of the subject property.



108. View looking east at Stirling Place along the south side of the subject property.



## **APPENDIX B: HISTORICAL/REGULATORY DOCUMENTATION**





0 Feet

500

1000

2000



Key: Subject Property 





0 Feet

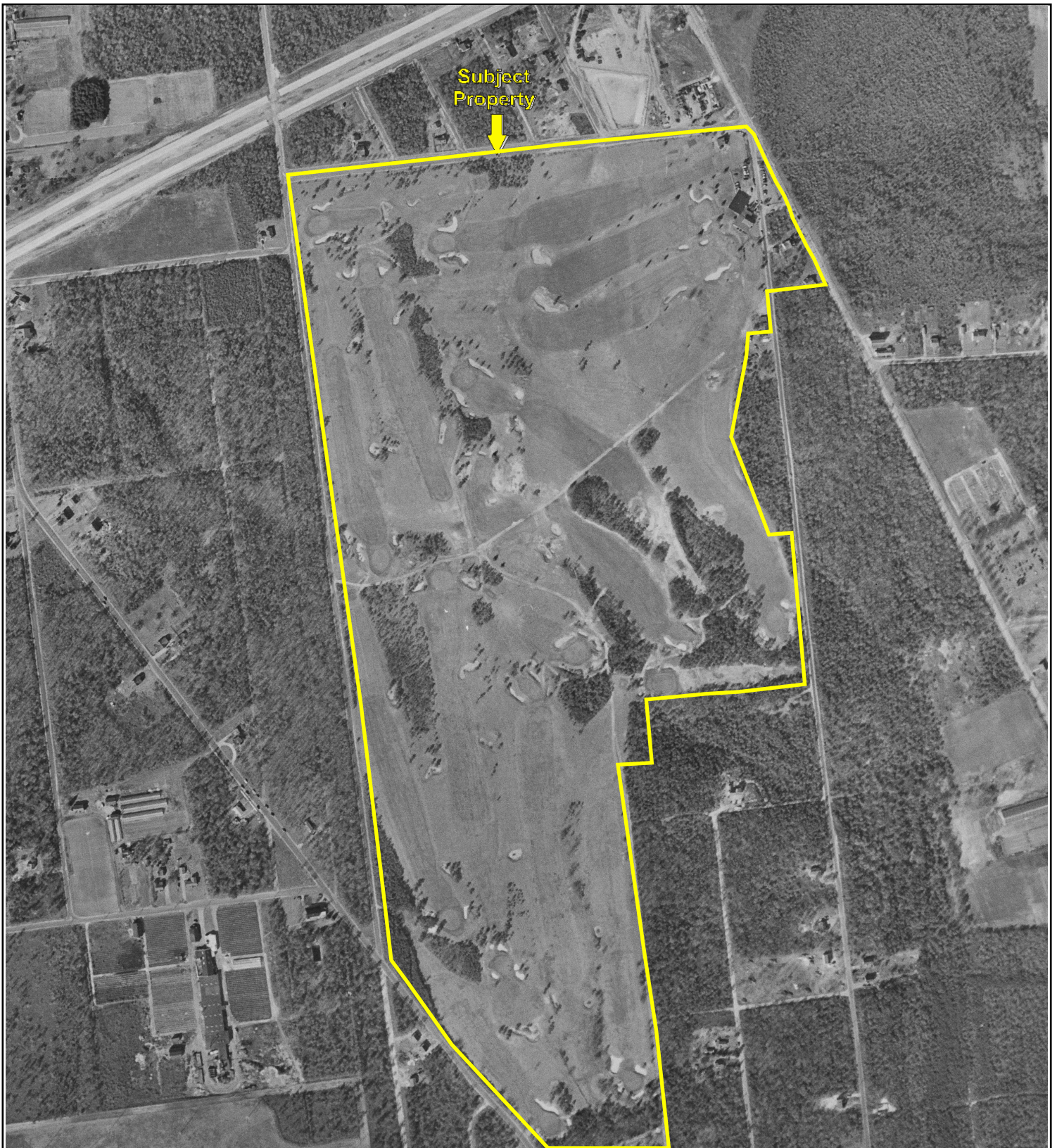
500

1000

2000

Key: Subject Property 





0 Feet

500

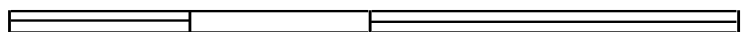
1000

2000

Key: Subject Property







Key: Subject Property 





0 Feet

500

1000

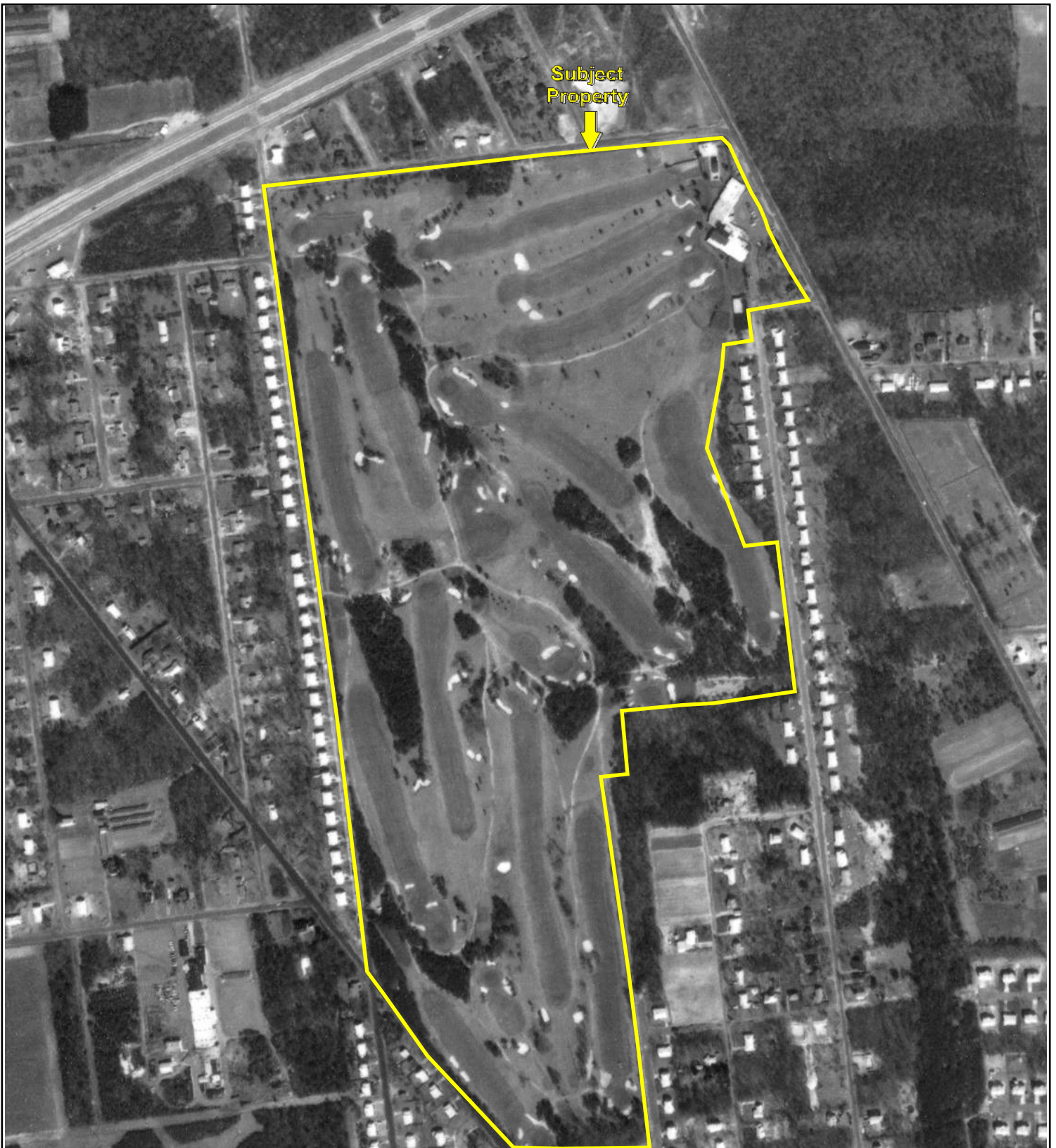
2000



Key: Subject Property







0 Feet

500

1000

2000



Key: Subject Property 





0 Feet

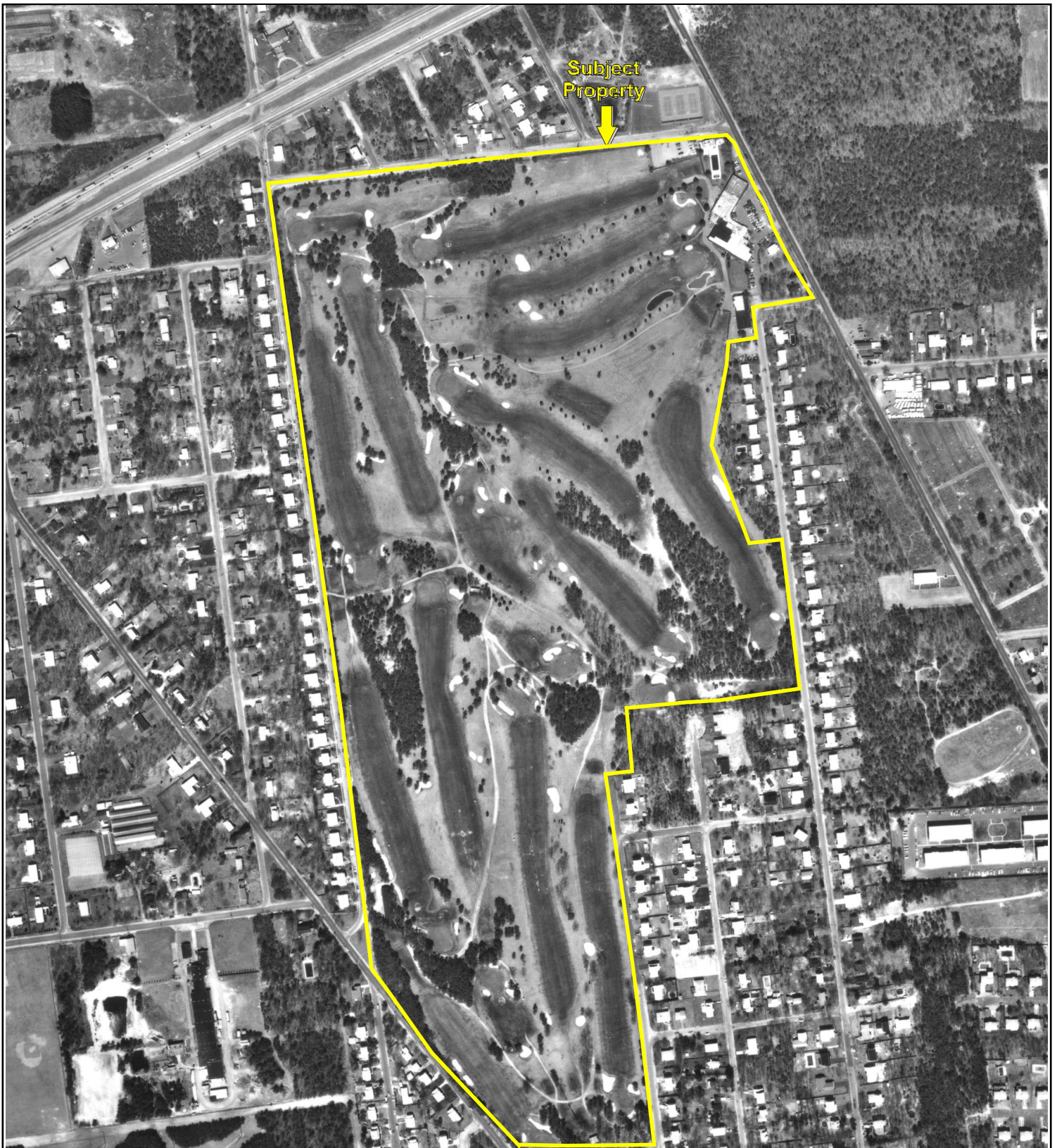
500

1000

2000

Key: Subject Property 





0 Feet

500

1000

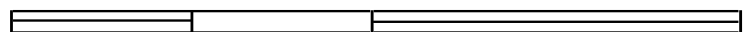
2000



Key: Subject Property







0 Feet

500

1000

2000



Key: Subject Property







0 Feet

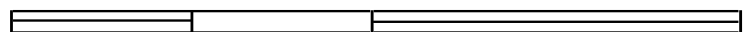
500

1000

2000

Key: Subject Property 





0 Feet

500

1000

2000



Key: Subject Property 





0 Feet

500

1000

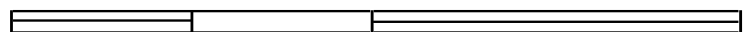
2000



Key: Subject Property







0 Feet

500

1000

2000



Key: Subject Property







0 Feet

500

1000

2000



Key: Subject Property







0 Feet

500

1000

2000



Key: Subject Property







Island Hills Golf Course

Lakeland Ave

Sayville, NY 11782

Inquiry Number: 5045648.3

September 11, 2017

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



## Certified Sanborn® Map Report

09/11/17

**Site Name:**

Island Hills Golf Course  
Lakeland Ave  
Sayville, NY 11782  
EDR Inquiry # 5045648.3

**Client Name:**

Partner Engineering and Science, Inc.  
2154 Torrance Blvd, Suite 200  
Torrance, CA 90501-0000  
Contact: Angelica Seals



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Partner Engineering and Science, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

### Certified Sanborn Results:

**Certification #** D651-4D18-A460

**PO #** NA

**Project** 17-196398.1

### UNMAPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: D651-4D18-A460

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

### Limited Permission To Make Copies

Partner Engineering and Science, Inc. (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

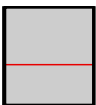
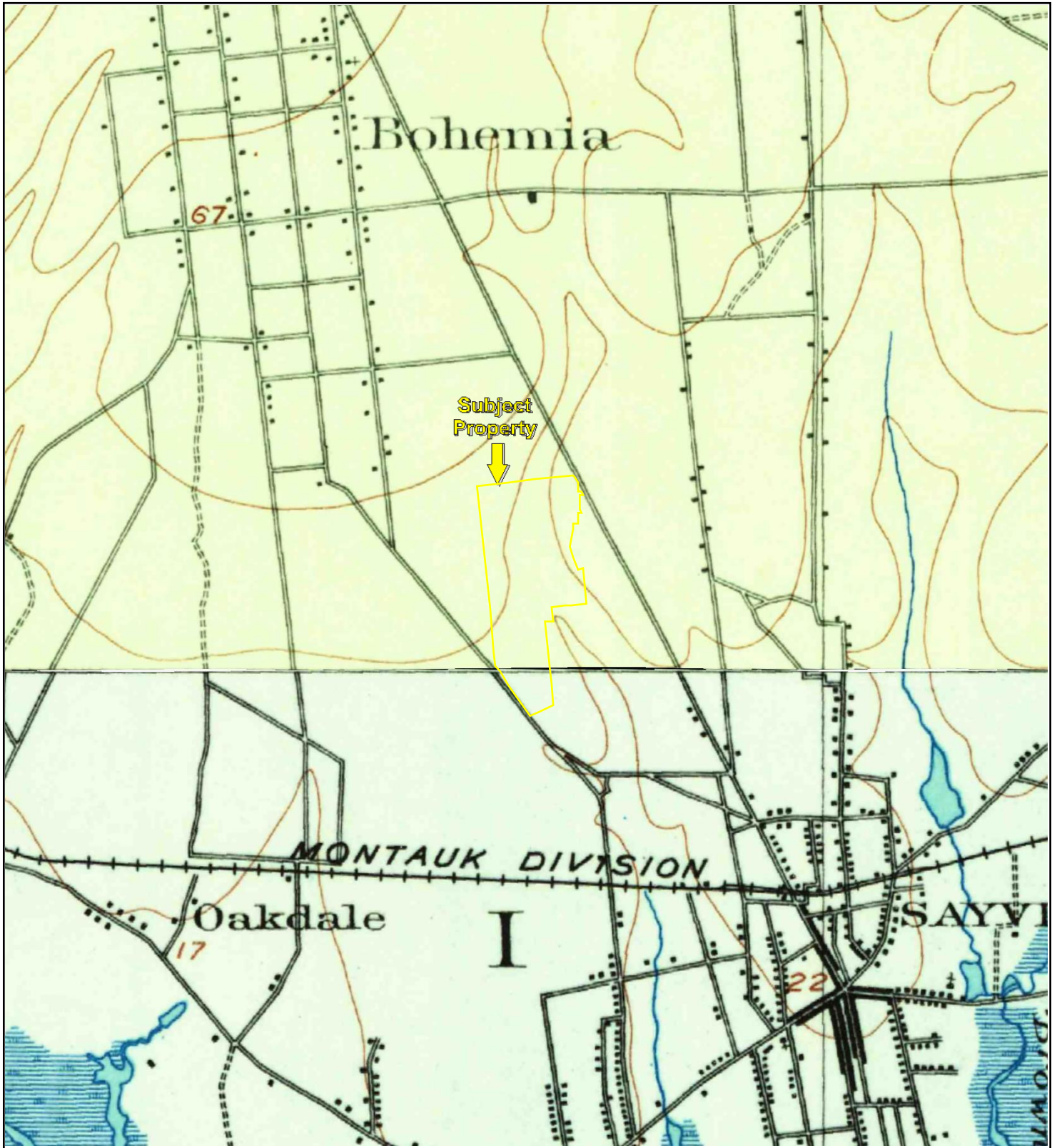
### Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

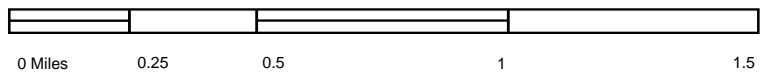
Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



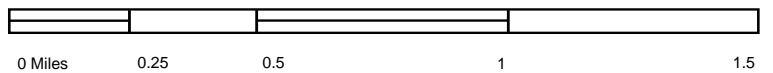
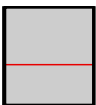
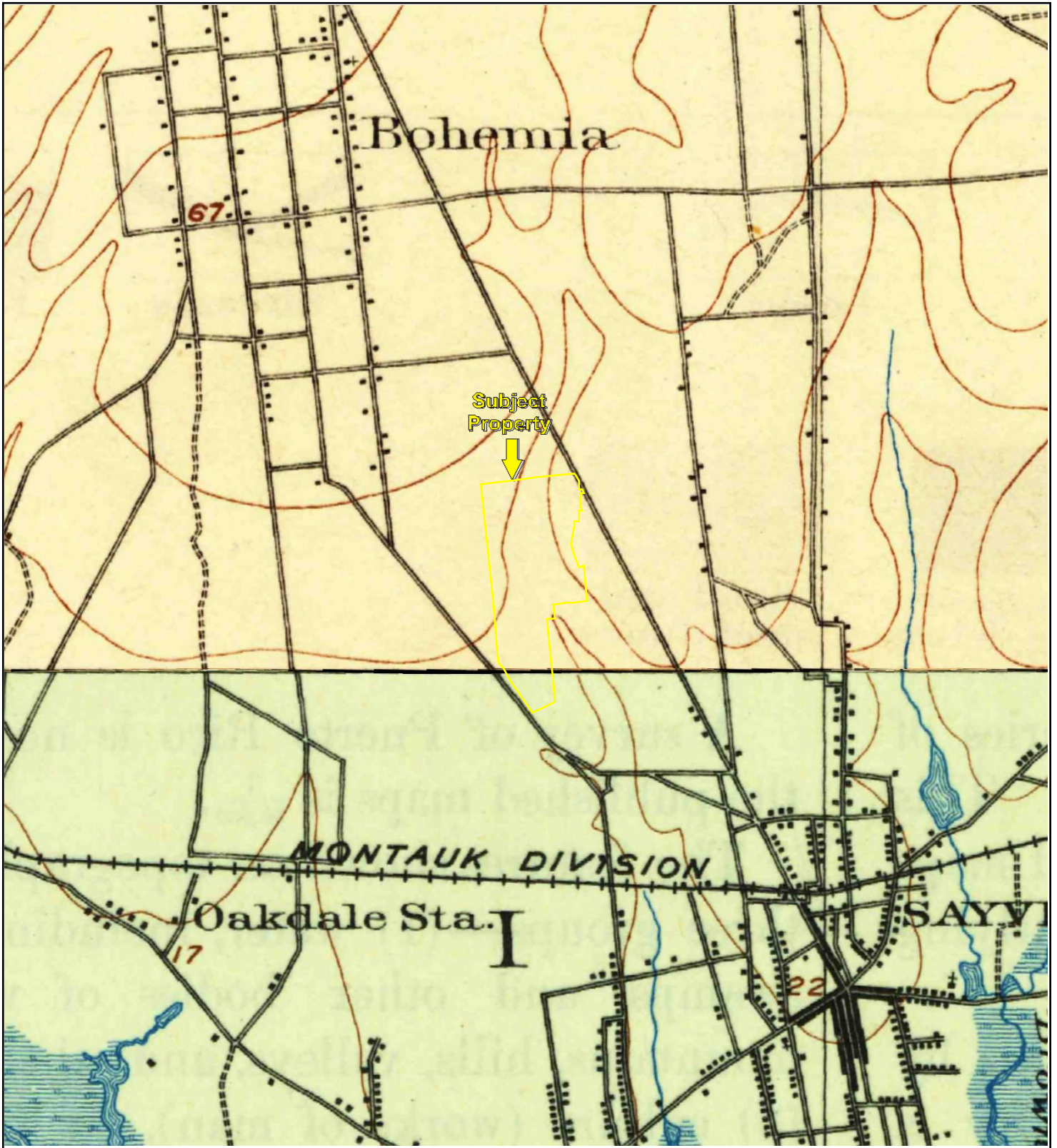


TP, Setauket, 1902, 15-minute  
S, Fire Island, 1902, 15-minute



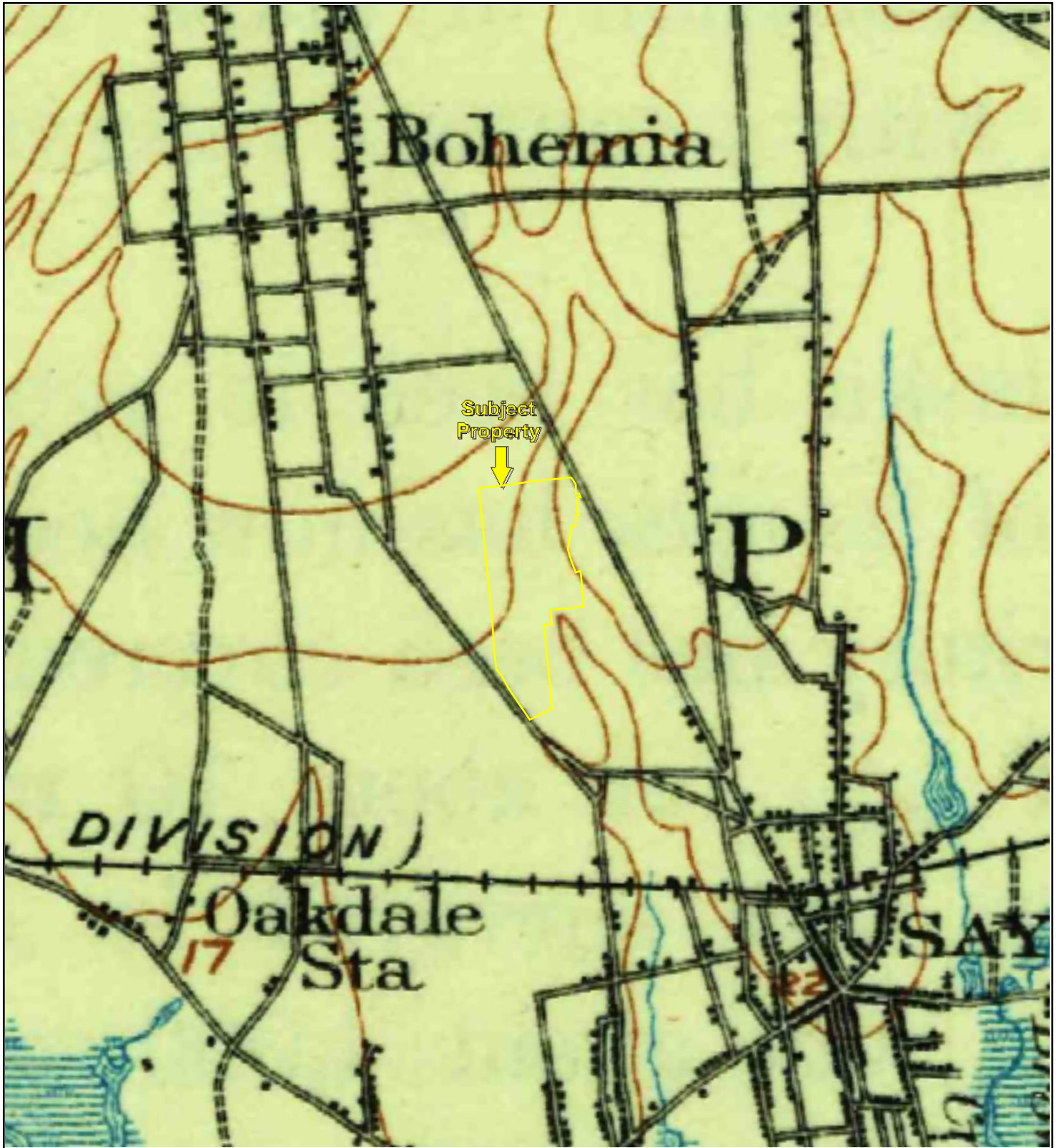
Key: Subject Property 



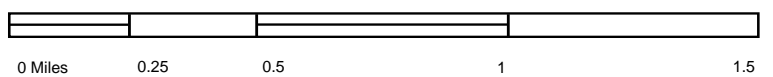


Key: Subject Property 



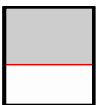
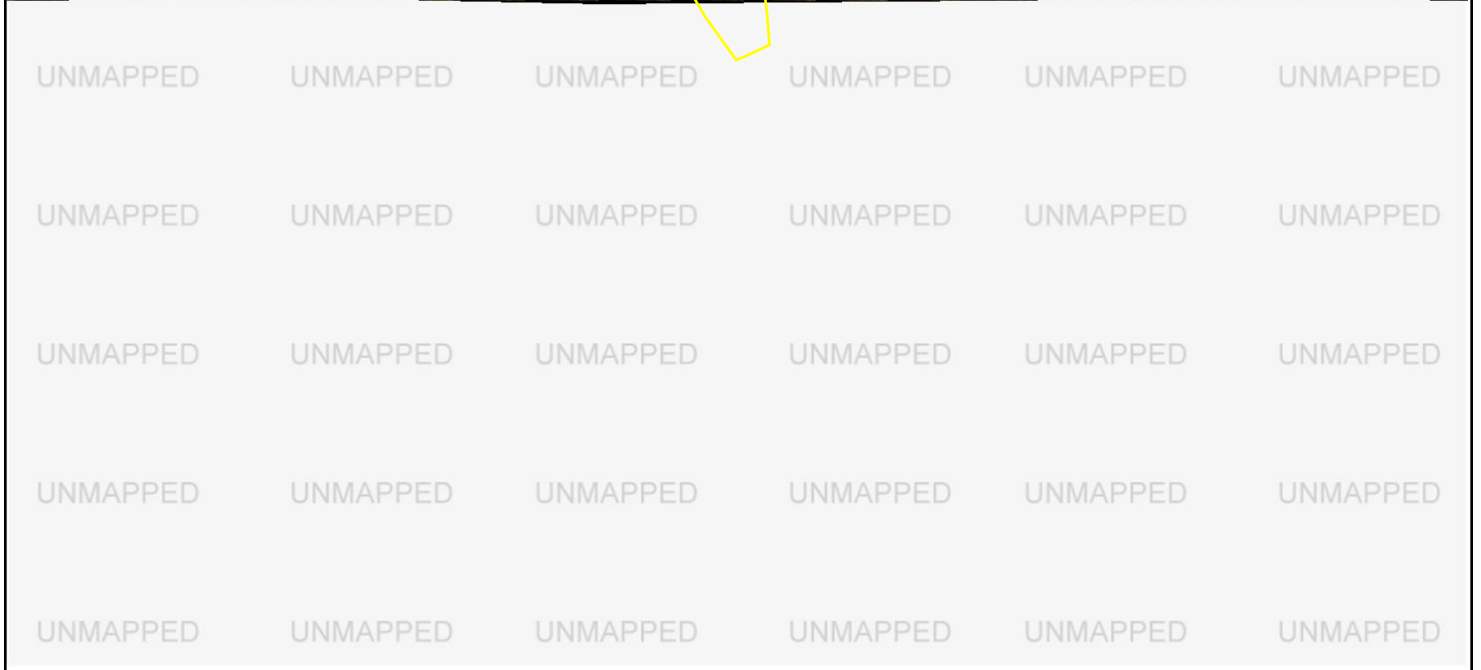
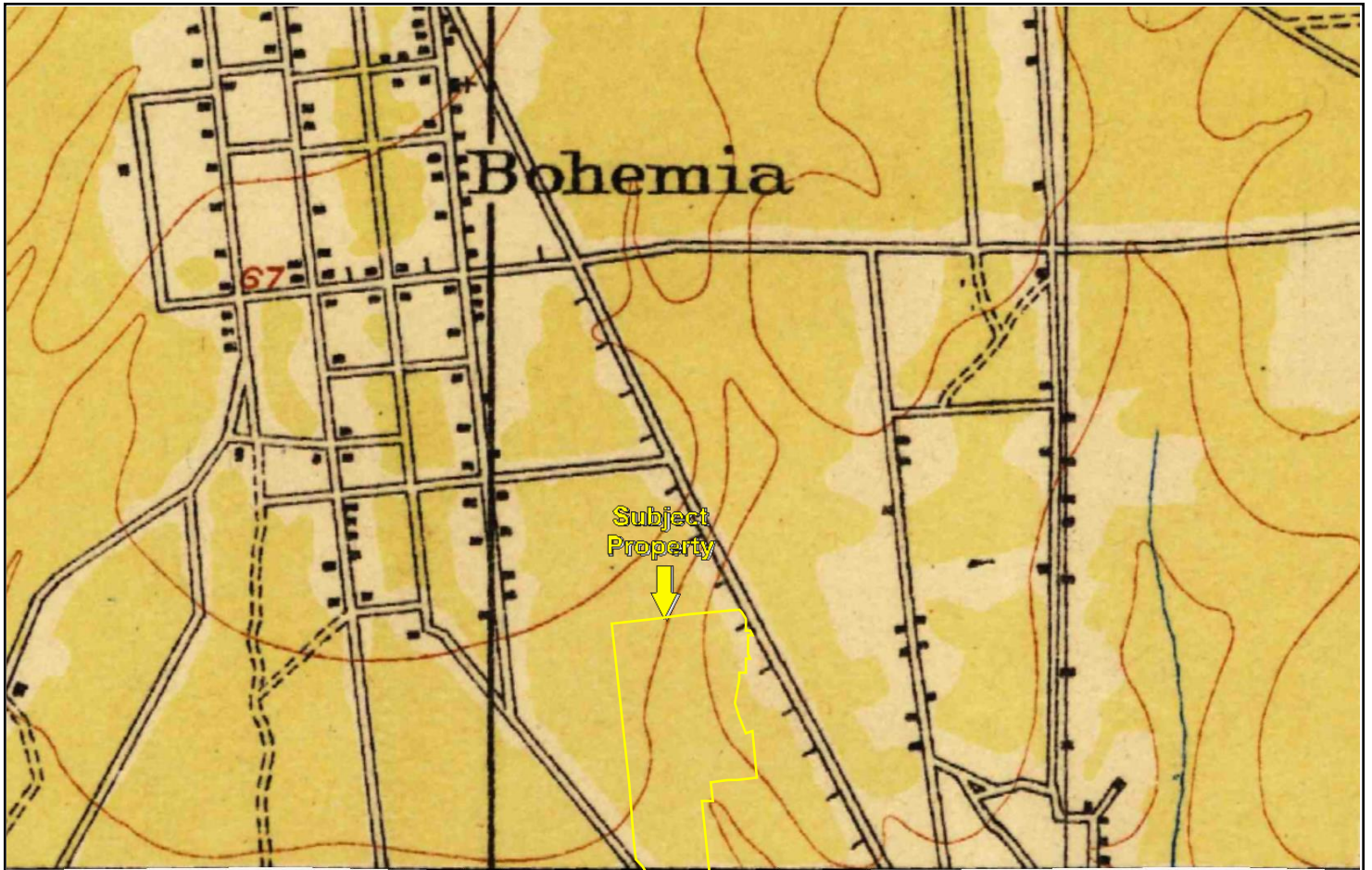


TP, Isip, 1904, 30-minute

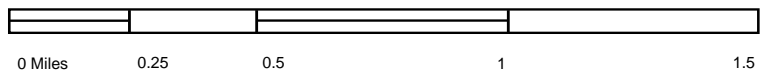


Key: Subject Property 



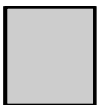
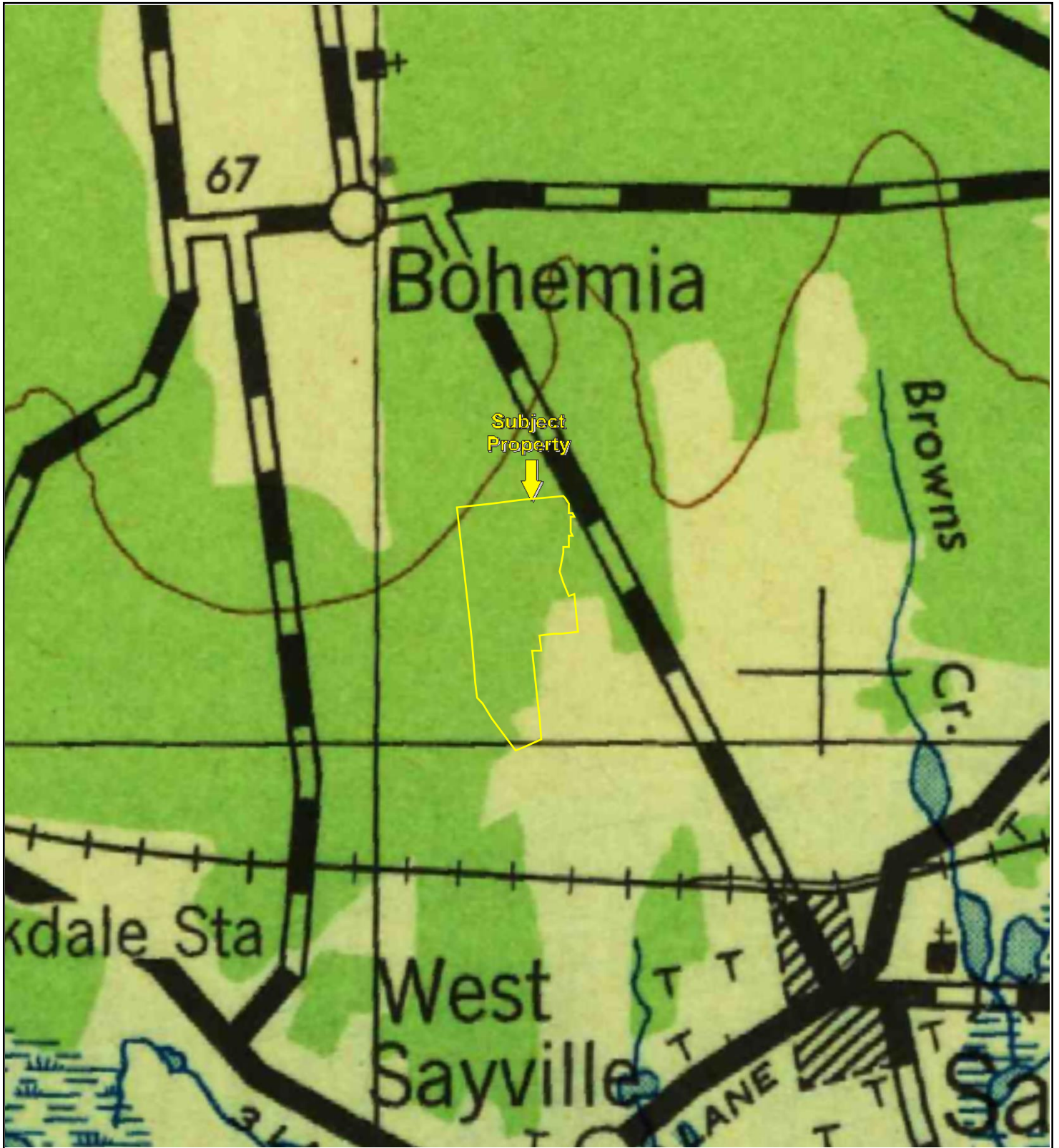


TP, Setauket, 1919, 15-minute

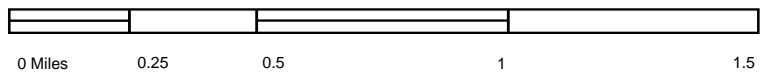


Key: Subject Property 



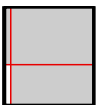


TP, Islip, 1942, 30-minute

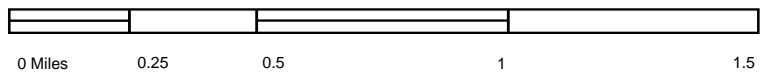


Key: Subject Property 



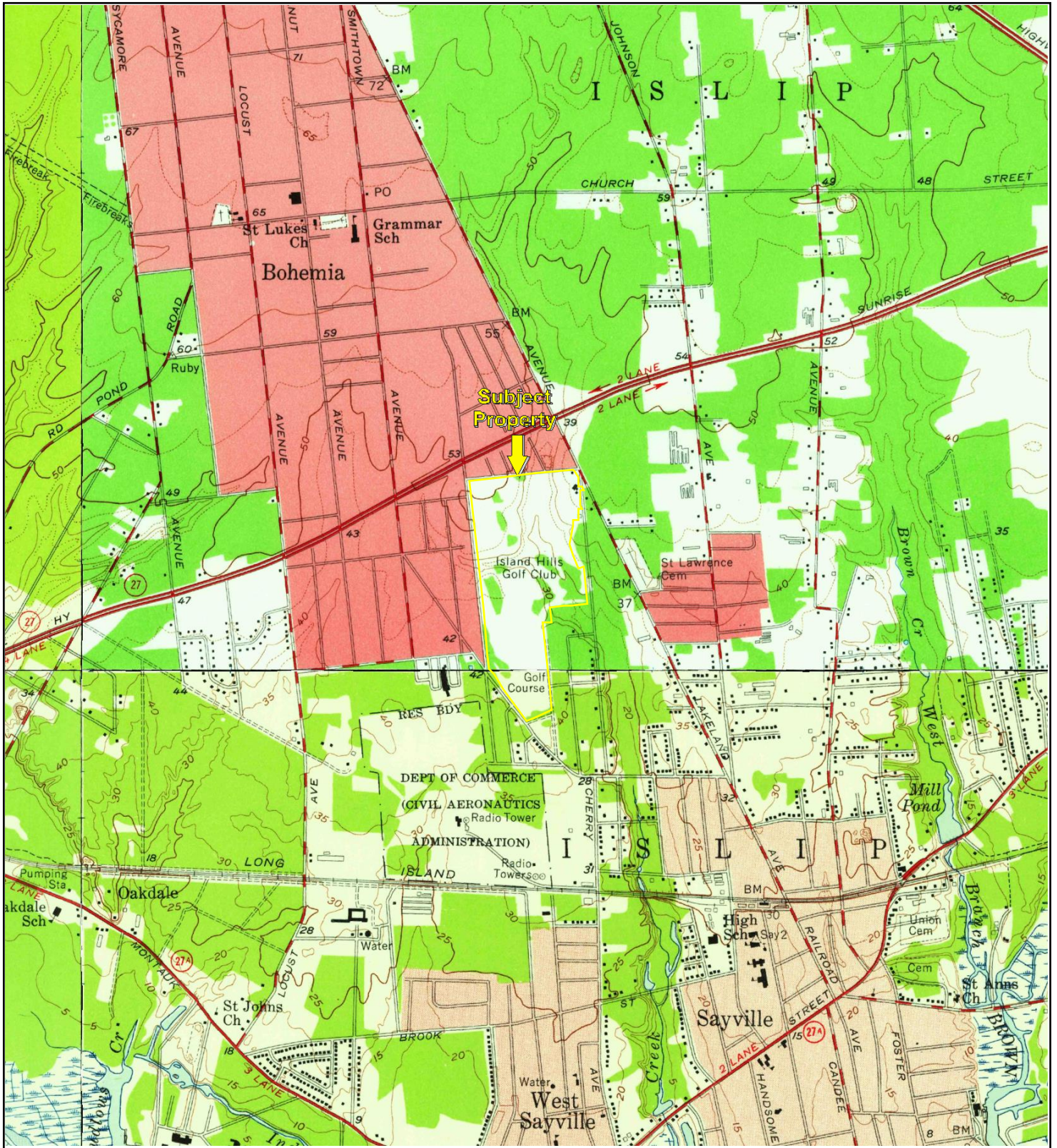


TP, Patchogue, 1947, 7.5-minute  
SE, Sayville, 1947, 7.5-minute  
NW, Central Islip, 1947, 7.5-minute

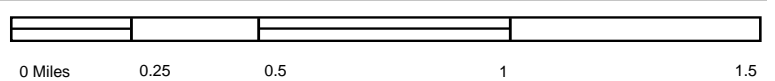


Key: Subject Property



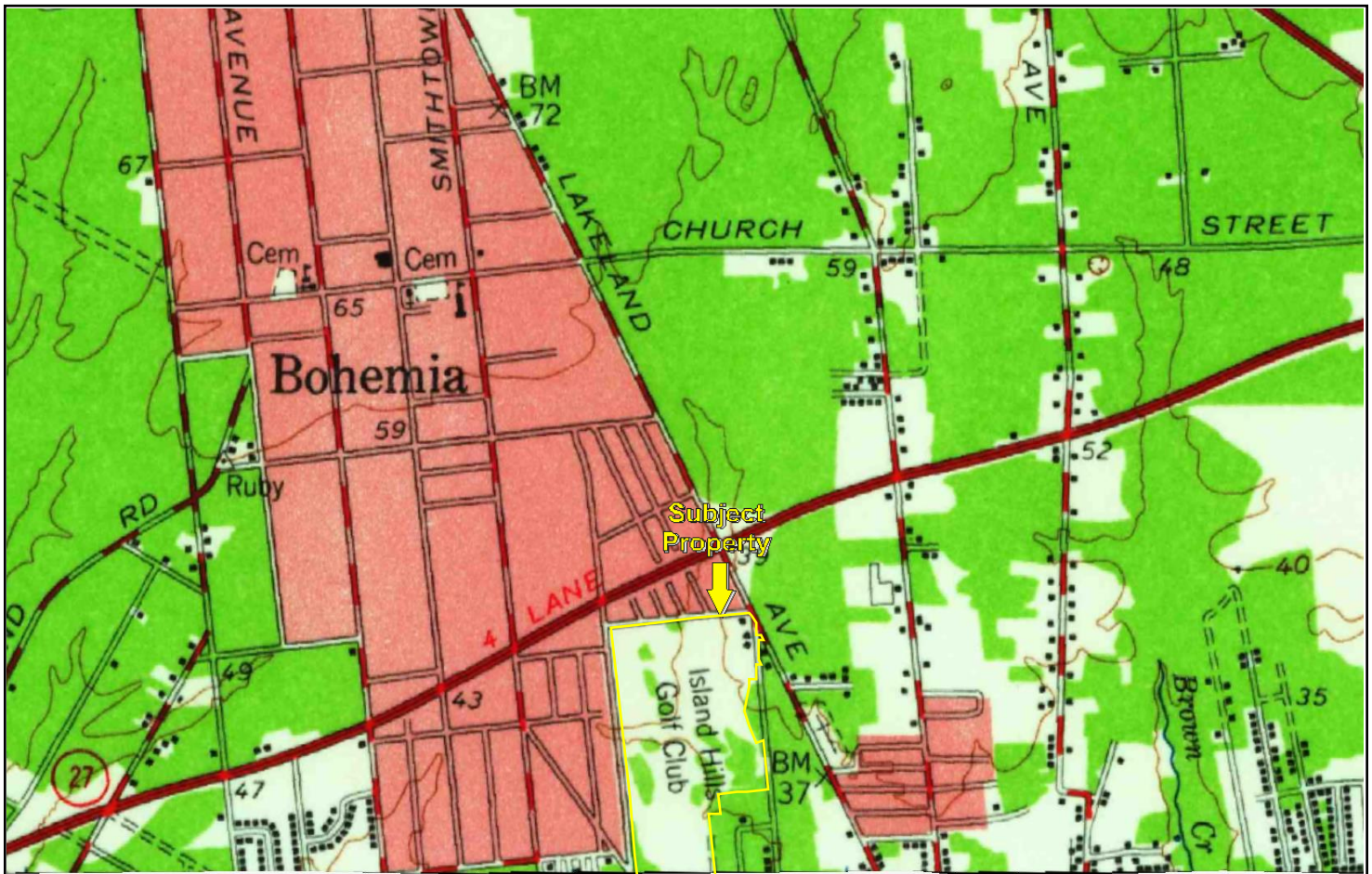


TP, Patchogue, 1956, 7.5-minute  
 SE, Sayville, 1955, 7.5-minute  
 SW, Bay Shore East, 1955, 7.5-minute  
 NW, Central Islip, 1956, 7.5-minute

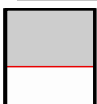


Key: Subject Property

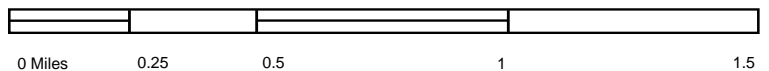




UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED

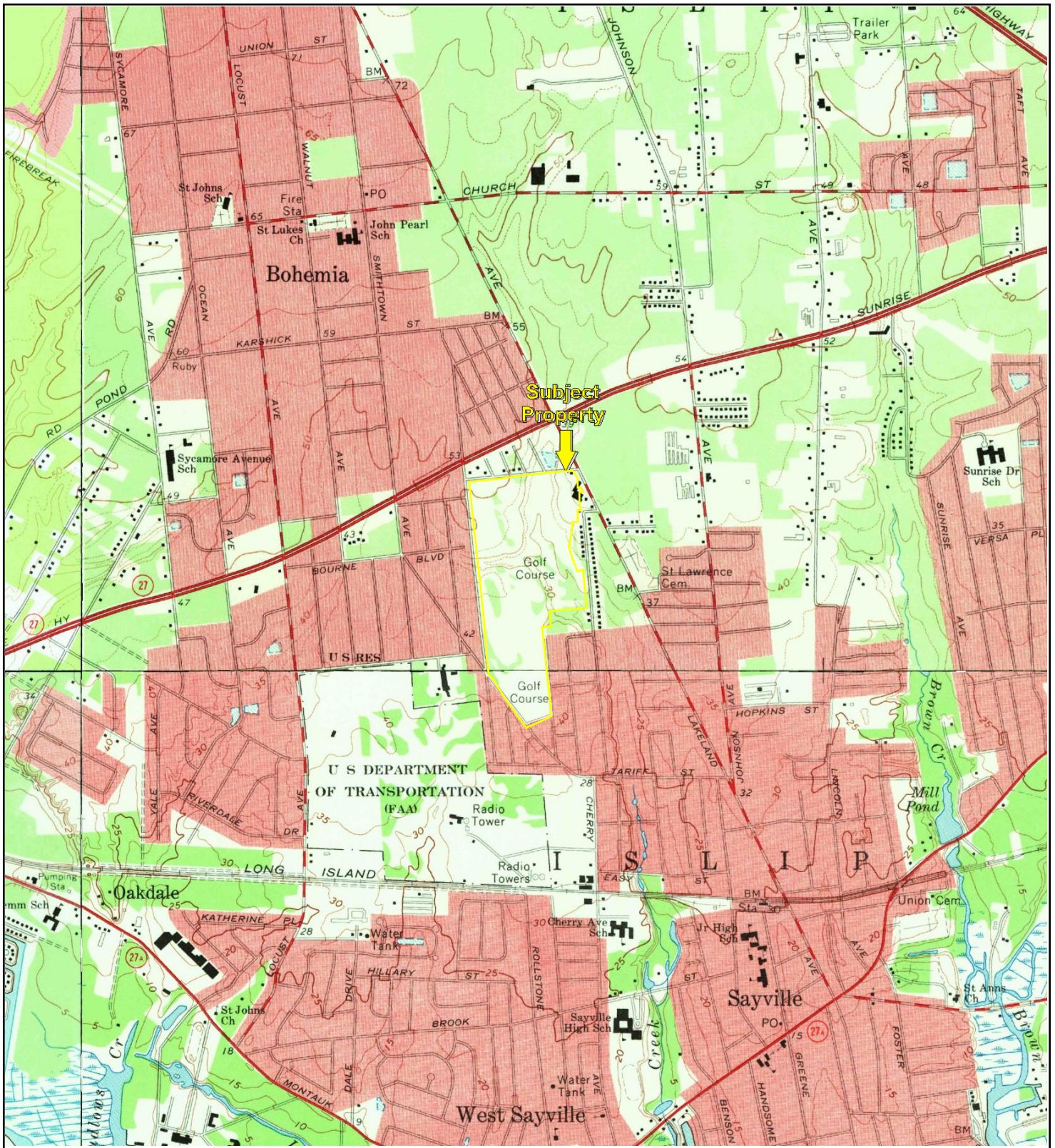


TP, Setauket, 1956, 15-minute

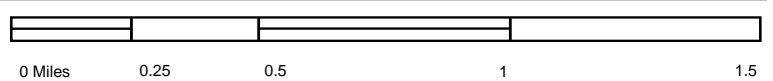


Key: Subject Property 



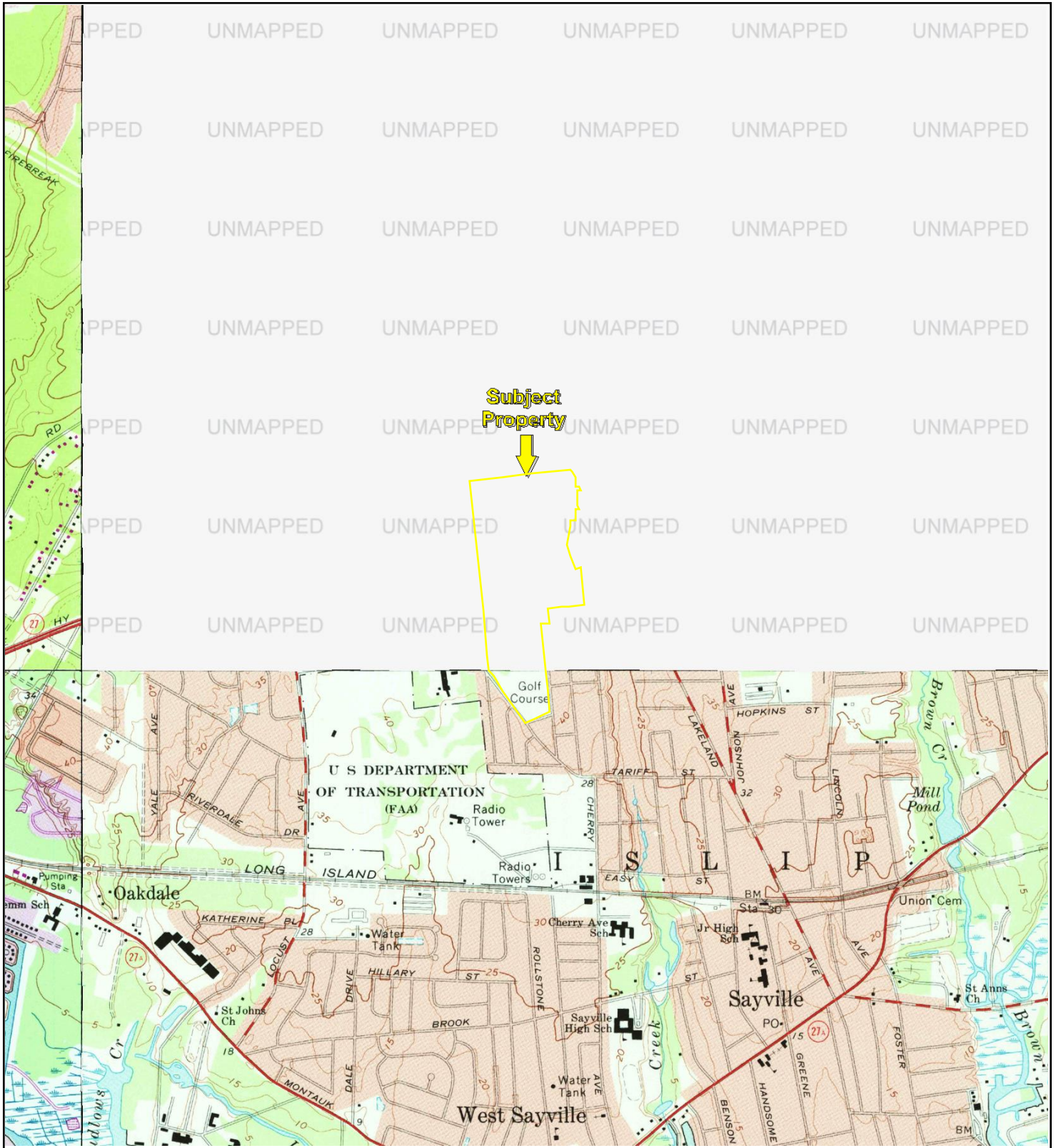


TP, Patchogue, 1967, 7.5-minute  
SE, Sayville, 1967, 7.5-minute  
SW, Bay Shore East, 1967, 7.5-minute  
NW, Central Islip, 1967, 7.5-minute



Key: Subject Property





Subject  
Property

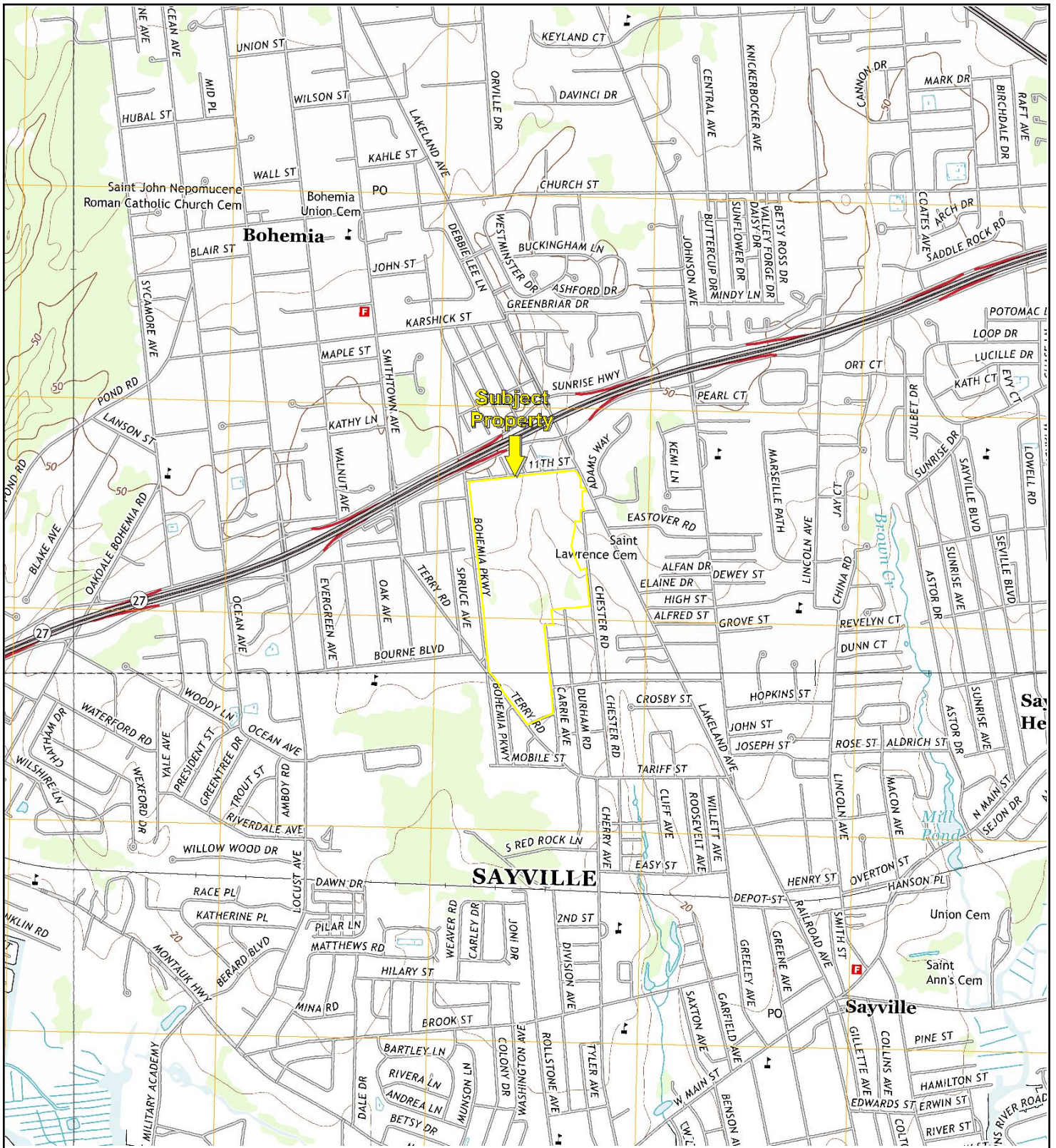
0 Miles 0.25 0.5 1 1.5

SE, Sayville, 1976, 7.5-minute  
SW, Bay Shore East, 1979, 7.5-minute  
NW, Central Islip, 1979, 7.5-minute

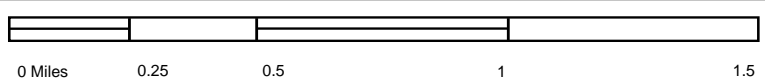


Key: Subject Property 





TP, Patchogue, 2013, 7.5-minute  
SE, Sayville, 2013, 7.5-minute  
SW, Bay Shore East, 2013, 7.5-minute  
NW, Central Islip, 2013, 7.5-minute



Key: Subject Property



## **APPENDIX C: REGULATORY DATABASE REPORT**

---



**Island Hills Golf Course**

Lakeland Ave

Sayville, NY 11782

Inquiry Number: 5045648.2s

September 11, 2017

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	8
Orphan Summary .....	149
Government Records Searched/Data Currency Tracking .....	GR-1
 <b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting SSURGO Soil Map .....	A-5
Physical Setting Source Map .....	A-13
Physical Setting Source Map Findings .....	A-15
Physical Setting Source Records Searched .....	PSGR-1

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

## Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

LAKELAND AVE  
SAYVILLE, NY 11782

#### COORDINATES

Latitude (North):	40.7541300 - 40° 45' 14.86"
Longitude (West):	73.0995850 - 73° 5' 58.50"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	660428.9
UTM Y (Meters):	4512989.5
Elevation:	42 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5940617 PATCHOGUE, NY
Version Date:	2013
Southeast Map:	5940627 SAYVILLE, NY
Version Date:	2013
Southwest Map:	5940595 BAY SHORE EAST, NY
Version Date:	2013
Northwest Map:	5940555 CENTRAL ISLIP, NY
Version Date:	2013

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150507
Source:	USDA



# MAPPED SITES SUMMARY

Target Property Address:  
LAKELAND AVE  
SAYVILLE, NY 11782

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	ISLAND HILLS GOLF CL	CNTY RD 93 LAKELAND	NY UST, NY AST	Lower	1 ft.
2	ISLAND HILLS GOLF CL	458 LAKELAND AVENUE	NY Spills	Higher	52, 0.010, NE
3	UNKNOWN	67 CARRIE AVENUE	NY Spills	Higher	81, 0.015, SSE
4	CURCIO RESIDENCE	168 TERRY ROAD	NY Spills	Lower	89, 0.017, SSW
5	UNKNOWN	640 BOHEMIA PKWY	NY Spills	Higher	91, 0.017, SW
6	LONG ISLAND TOUCH UP	948 CHESTER RD	EDR Hist Auto	Lower	131, 0.025, ENE
A7	SUBURBAN CRPT UPHLST	211 TERRY RD	EDR Hist Cleaner	Higher	252, 0.048, SW
B8	SUNRISE GARDEN APT	LAKELAND AVENUE	NY LTANKS	Lower	283, 0.054, NNE
B9	E&B INDUSTRIAL CLEAN	LAKELAND AVE & SUNRI	NY Spills	Lower	283, 0.054, NNE
B10	OCEAN ROCK & DIVING	LAKELAND AVENUE	NY Spills	Lower	283, 0.054, NNE
A11	KOSTER KEUNEN COMPAN	BOURNE BLVD	NY Spills	Higher	290, 0.055, SW
C12	FAIRFIELD/SAYVILLE C	400 ADAMS WAY/LAKELA	NY Spills	Higher	356, 0.067, NE
C13	FAIRFIELD/SAYVILLE C	400 ADAMS WAY/LAKELA	NY Spills	Higher	356, 0.067, NE
D14	JFA COLLISION	1 ARTIC AVE	NY UST	Higher	474, 0.090, NW
D15	PARK SUNOCO	4850 SUNRISE HWY	EDR Hist Auto	Higher	496, 0.094, NW
E16	EXXON DIV OF CFI #70	4909 SUNRISE HWY	NY UST, RCRA NonGen / NLR, NY MANIFEST	Higher	515, 0.098, NNW
E17	CUMBERLAND FARMS # 7	4909 SUNRISE HWY	NY LTANKS, NY Spills	Higher	515, 0.098, NNW
E18	BOHEMIA DEVELOPMENT	4909 SUNRISE HWY	EDR Hist Auto	Higher	515, 0.098, NNW
E19	EXXON	4909 SUNRISE HIGHWAY	NY Spills	Higher	515, 0.098, NNW
20	RESIDENCE	220 TERRY ROAD	NY Spills	Higher	523, 0.099, SW
F21	UNK	SUNRISE HWY & LAKELA	NY Spills	Lower	545, 0.103, NNE
G22	KOSTER KEUNEN INC	90 BOURNE BLVD	NY Spills, RCRA NonGen / NLR, FINDS, ECHO, NY...	Higher	573, 0.109, SW
G23	GAZZA	123 TOLEDO ST	NY UST, NY AST	Higher	573, 0.109, SW
G24	KOSTER KEUNEN INC	90 BOURNE BLVD	NY UST	Higher	573, 0.109, SW
F25	UNKNOWN	LAKELAND AVE/RTE 27	NY Spills	Lower	619, 0.117, North
F26	SAYVILLE BOWLING ALL	SUNRISE HWY & LAKELA	NY Spills	Lower	619, 0.117, North
F27	TRI VENTURE	SUNRISE HWY/LAKELAND	NY Spills	Lower	619, 0.117, North
F28	UNK	11TH ST/SUNRISE SOUT	NY Spills	Lower	619, 0.117, North
F29	UNKNOWN	SUNRISE HWY & LAKELA	NY Spills	Lower	619, 0.117, North
F30	UNKNOWN	LAKELAND AVE/SUNRISE	NY Spills	Lower	619, 0.117, North
31	RESIDENCE	78 ISLAND BLVD	NY Spills	Higher	657, 0.124, WNW
H32	GENERATION KIA	4825 SUNRISE HWY	NY AST	Higher	756, 0.143, NW
H33	LEE CHEVROLET	4825 SUNRISE HWY	RCRA-CESQG, FINDS, ECHO, NY MANIFEST	Higher	756, 0.143, NW
H34	LEE CHEVROLET INC.	4825 SUNRISE HWY	NJ MANIFEST	Higher	756, 0.143, NW
35	COUNTRY CLUB APTS	342 CNTY RD 93 LAKEL	NY UST	Lower	868, 0.164, ESE
36	K MART	5151 RTE 27 SUNRISE	NY AST	Higher	958, 0.181, NNE
I37	EDWARDS 0138	57-05 SUNRISE HWY	RCRA NonGen / NLR, FINDS, ECHO, NY MANIFEST	Higher	972, 0.184, WNW
38	ARIEL GRAPHICS	80 BOURNE BLVD	RCRA NonGen / NLR, FINDS, ECHO	Higher	1013, 0.192, SW
I39	SUNRISE DIAGNOSTICS	635 SMITHTOWN AVE	NY UST, NY AST	Higher	1100, 0.208, WNW



# MAPPED SITES SUMMARY

Target Property Address:  
LAKELAND AVE  
SAYVILLE, NY 11782

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">I40</a>	AMOCO	635 SMITHTOWN AVE	NY LTANKS, NY Spills	Higher	1100, 0.208, WNW
<a href="#">I41</a>	TARTAN OIL CO	635 SMITHTOWN AVE	RCRA NonGen / NLR, ICIS, FINDS, ECHO, NY MANIFEST	Higher	1100, 0.208, WNW
<a href="#">42</a>	WEST SAYVILLE IFS TR	CHERRY AVE	SEMS-ARCHIVE, RCRA NonGen / NLR, NY MANIFEST	Lower	1274, 0.241, SSE
<a href="#">43</a>	BOHEMIA AUTO WASH	4740 SOUTH SUNRISE H	NY UST, NY AST	Higher	1307, 0.248, WNW
<a href="#">44</a>	PAUL SCHNECBERG & SO	286 JOHNSON AVENUE	NY LTANKS	Higher	1666, 0.316, ENE
<a href="#">45</a>	SAYVILLE MIDDLE SCHO	291 JOHNSON AVE	NY LTANKS	Higher	2135, 0.404, ENE
<a href="#">46</a>	EXXON	5230 SUNRISE HIGHWAY	NY LTANKS, NY Spills	Higher	2144, 0.406, NE
<a href="#">47</a>	GAZALOFF/P&G FUEL	386 HILLSIDE AVENUE	NY LTANKS	Lower	2237, 0.424, SSE
<a href="#">48</a>	BOSTI ELEMENTARY SCH	4 BOURN BLVD	NY LTANKS	Lower	2378, 0.450, SW
<a href="#">49</a>	FAIRFIELD PROPERTIES	EAST STREET & SHERRY	NY LTANKS	Lower	2552, 0.483, SSE



## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

#### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing  
SEMS..... Superfund Enterprise Management System

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

#### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

#### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity Generators

#### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System  
US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

#### ***Federal ERNS list***

ERNS..... Emergency Response Notification System



## EXECUTIVE SUMMARY

### ***State- and tribal - equivalent CERCLIS***

NY SHWS..... Inactive Hazardous Waste Disposal Sites in New York State  
NY VAPOR REOPENED..... Vapor Intrusion Legacy Site List

### ***State and tribal landfill and/or solid waste disposal site lists***

NY SWF/LF..... Facility Register

### ***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land  
NY HIST LTANKS..... Listing of Leaking Storage Tanks

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing  
NY CBS UST..... Chemical Bulk Storage Database  
NY MOSF UST..... Major Oil Storage Facilities Database  
NY CBS..... Chemical Bulk Storage Site Listing  
NY MOSF..... Major Oil Storage Facility Site Listing  
NY CBS AST..... Chemical Bulk Storage Database  
NY MOSF AST..... Major Oil Storage Facilities Database  
INDIAN UST..... Underground Storage Tanks on Indian Land  
NY TANKS..... Storage Tank Facility Listing

### ***State and tribal institutional control / engineering control registries***

NY RES DECL..... Restrictive Declarations Listing  
NY ENG CONTROLS..... Registry of Engineering Controls  
NY INST CONTROL..... Registry of Institutional Controls

### ***State and tribal voluntary cleanup sites***

NY VCP..... Voluntary Cleanup Agreements  
INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

NY BROWNFIELDS..... Brownfields Site List  
NY ERP..... Environmental Restoration Program Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

NY SWRCY..... Registered Recycling Facility List  
NY SWTIRE..... Registered Waste Tire Storage & Facility List  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands



## EXECUTIVE SUMMARY

ODI..... Open Dump Inventory  
 DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
 IHS OPEN DUMPS..... Open Dumps on Indian Land

### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... Delisted National Clandestine Laboratory Register  
 NY DEL SHWS..... Delisted Registry Sites  
 US CDL..... National Clandestine Laboratory Register

### ***Local Lists of Registered Storage Tanks***

NY HIST UST..... Historical Petroleum Bulk Storage Database  
 NY HIST AST..... Historical Petroleum Bulk Storage Database

### ***Local Land Records***

NY LIENS..... Spill Liens Information  
 LIENS 2..... CERCLA Lien Information

### ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System  
 NY Hist Spills..... SPILLS Database  
 NY SPILLS 90..... SPILLS 90 data from FirstSearch  
 NY SPILLS 80..... SPILLS 80 data from FirstSearch

### ***Other Ascertainable Records***

FUDS..... Formerly Used Defense Sites  
 DOD..... Department of Defense Sites  
 SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
 US FIN ASSUR..... Financial Assurance Information  
 EPA WATCH LIST..... EPA WATCH LIST  
 2020 COR ACTION..... 2020 Corrective Action Program List  
 TSCA..... Toxic Substances Control Act  
 TRIS..... Toxic Chemical Release Inventory System  
 SSTS..... Section 7 Tracking Systems  
 ROD..... Records Of Decision  
 RMP..... Risk Management Plans  
 RAATS..... RCRA Administrative Action Tracking System  
 PRP..... Potentially Responsible Parties  
 PADS..... PCB Activity Database System  
 FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
 MLTS..... Material Licensing Tracking System  
 COAL ASH DOE..... Steam-Electric Plant Operation Data  
 COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
 PCB TRANSFORMER..... PCB Transformer Registration Database  
 RADINFO..... Radiation Information Database  
 HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
 DOT OPS..... Incident and Accident Data  
 CONSENT..... Superfund (CERCLA) Consent Decrees  
 INDIAN RESERV..... Indian Reservations  
 FUSRAP..... Formerly Utilized Sites Remedial Action Program



## EXECUTIVE SUMMARY

UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
UXO.....	Unexploded Ordnance Sites
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
NY AIRS.....	Air Emissions Data
NY COAL ASH.....	Coal Ash Disposal Site Listing
NY DRYCLEANERS.....	Registered Drycleaners
NY E DESIGNATION.....	E DESIGNATION SITE LISTING
NY Financial Assurance.....	Financial Assurance Information Listing
NY HSWDS.....	Hazardous Substance Waste Disposal Site Inventory
NY UIC.....	Underground Injection Control Wells

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

NY RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List  
NY RGA LF..... Recovered Government Archive Solid Waste Facilities List

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes



## EXECUTIVE SUMMARY

available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 02/07/2017 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>WEST SAYVILLE IFS TR</b>	<b>CHERRY AVE</b>	<b>SSE 1/8 - 1/4 (0.241 mi.)</b>	<b>42</b>	<b>122</b>

### ***Federal RCRA generators list***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LEE CHEVROLET</b>	<b>4825 SUNRISE HWY</b>	<b>NW 1/8 - 1/4 (0.143 mi.)</b>	<b>H33</b>	<b>85</b>

### ***State and tribal leaking storage tank lists***

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 05/16/2017 has revealed that there are 9 NY LTANKS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CUMBERLAND FARMS # 7</b> Spill Number/Closed Date: 1202591 / 2012-10-19 Site ID: 465364 Program Number: 1202591	<b>4909 SUNRISE HWY</b>	<b>NNW 0 - 1/8 (0.098 mi.)</b>	<b>E17</b>	<b>39</b>
<b>AMOCO</b> Spill Number/Closed Date: 9403110 / 1995-02-22 Site ID: 103635 Program Number: 9403110	<b>635 SMITHTOWN AVE</b>	<b>WNW 1/8 - 1/4 (0.208 mi.)</b>	<b>I40</b>	<b>113</b>
<b>PAUL SCHNECBERG &amp; SO</b>	<b>286 JOHNSON AVENUE</b>	<b>ENE 1/4 - 1/2 (0.316 mi.)</b>	<b>44</b>	<b>137</b>



## EXECUTIVE SUMMARY

Spill Number/Closed Date: 9209189 / 1997-03-05

Site ID: 131600

Program Number: 9209189

SAYVILLE MIDDLE SCHO	291 JOHNSON AVE	ENE 1/4 - 1/2 (0.404 mi.)	45	138
----------------------	-----------------	---------------------------	----	-----

Spill Number/Closed Date: 9303436 / 1994-02-09

Site ID: 324204

Program Number: 9303436

<b>EXXON</b>	<b>5230 SUNRISE HIGHWAY</b>	<b>NE 1/4 - 1/2 (0.406 mi.)</b>	<b>46</b>	<b>140</b>
--------------	-----------------------------	---------------------------------	-----------	------------

Spill Number/Closed Date: 8607082 / 1987-03-26

Spill Number/Closed Date: 8607524 / 1987-03-26

Site ID: 297806

Site ID: 297807

Program Number: 8607082

Program Number: 8607524

Lower Elevation	Address	Direction / Distance	Map ID	Page
SUNRISE GARDEN APT Spill Number/Closed Date: 9704618 / 1997-08-14 Site ID: 87162 Program Number: 9704618	LAKELAND AVENUE	NNE 0 - 1/8 (0.054 mi.)	B8	17
GAZALOFF/P&G FUEL Spill Number/Closed Date: 9508717 / 1995-11-27 Site ID: 77112 Program Number: 9508717	386 HILLSIDE AVENUE	SSE 1/4 - 1/2 (0.424 mi.)	47	144
BOSTI ELEMENTARY SCH Spill Number/Closed Date: 8800135 / 1988-06-22 Site ID: 163151 Program Number: 8800135	4 BOURN BLVD	SW 1/4 - 1/2 (0.450 mi.)	48	145
FAIRFIELD PROPERTIES Spill Number/Closed Date: 8900985 / 1989-07-03 Site ID: 257985 Program Number: 8900985	EAST STREET & SHERRY	SSE 1/4 - 1/2 (0.483 mi.)	49	146

### State and tribal registered storage tank lists

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, has revealed that there are 8 NY UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JFA COLLISION Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Site Ref#: 10017 Facility ID: 10017	1 ARTIC AVE	NW 0 - 1/8 (0.090 mi.)	D14	24
<b>EXXON DIV OF CFI #70</b> Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015	<b>4909 SUNRISE HWY</b>	<b>NNW 0 - 1/8 (0.098 mi.)</b>	<b>E16</b>	<b>25</b>



## EXECUTIVE SUMMARY

Site Ref#: 09474  
Facility ID: 09474

<b>GAZZA</b>	<b>123 TOLEDO ST</b>	<b>SW 0 - 1/8 (0.109 mi.)</b>	<b>G23</b>	<b>63</b>
Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015				
Site Ref#: 01595				
Facility ID: 01595				
KOSTER KEUNEN INC	90 BOURNE BLVD	SW 0 - 1/8 (0.109 mi.)	G24	69
Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015				
Site Ref#: 10290				
Facility ID: 10290				
<b>SUNRISE DIAGNOSTICS</b>	<b>635 SMITHTOWN AVE</b>	<b>WNW 1/8 - 1/4 (0.208 mi.)</b>	<b>I39</b>	<b>106</b>
Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015				
Site Ref#: 09638				
Facility ID: 09638				
<b>BOHEMIA AUTO WASH</b>	<b>4740 SOUTH SUNRISE H</b>	<b>WNW 1/8 - 1/4 (0.248 mi.)</b>	<b>43</b>	<b>126</b>
Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015				
Database: UST, Date of Government Version: 12/28/2016				
Site Ref#: 05486				
Status: ACTIVE				
Facility ID: 05486				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ISLAND HILLS GOLF CL</b>	<b>CNTY RD 93 LAKELAND</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>1</b>	<b>8</b>
Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015				
Site Ref#: 11452				
Facility ID: 11452				
COUNTRY CLUB APTS	342 CNTY RD 93 LAKEL	ESE 1/8 - 1/4 (0.164 mi.)	35	98
Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015				
Site Ref#: 09427				
Facility ID: 09427				

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, has revealed that there are 6 NY AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>GAZZA</b>	<b>123 TOLEDO ST</b>	<b>SW 0 - 1/8 (0.109 mi.)</b>	<b>G23</b>	<b>63</b>
Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015				
Site Ref#: 10290				
Facility Id: 10290				
GENERATION KIA	4825 SUNRISE HWY	NW 1/8 - 1/4 (0.143 mi.)	H32	81
Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015				
Site Ref#: 06962				
Status: ACTIVE				
Facility Id: 06962				
K MART	5151 RTE 27 SUNRISE	NNE 1/8 - 1/4 (0.181 mi.)	36	100
Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015				



## EXECUTIVE SUMMARY

Site Ref#: 10103

Facility Id: 10103

**SUNRISE DIAGNOSTICS**

**635 SMITHTOWN AVE**

**WNW 1/8 - 1/4 (0.208 mi.) I39**

**106**

Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015

Site Ref#: 09638

Facility Id: 09638

**BOHEMIA AUTO WASH**

**4740 SOUTH SUNRISE H**

**WNW 1/8 - 1/4 (0.248 mi.) 43**

**126**

Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015

Database: AST, Date of Government Version: 12/28/2016

Site Ref#: 05486

Status: ACTIVE

Facility Id: 1-000306

Facility Id: 05486

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ISLAND HILLS GOLF CL</b>	<b>CNTY RD 93 LAKELAND</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>1</b>	<b>8</b>
Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015				
Site Ref#: 11452				
Facility Id: 11452				

### ADDITIONAL ENVIRONMENTAL RECORDS

#### **Records of Emergency Release Reports**

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 05/16/2017 has revealed that there are 21 NY Spills sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ISLAND HILLS GOLF CL	458 LAKELAND AVENUE	NE 0 - 1/8 (0.010 mi.)	2	11
Spill Number/Closed Date: 0511071 / 2006-03-21				
spillno: 0511071				
Site ID: 357155				
UNKNOWN	67 CARRIE AVENUE	SSE 0 - 1/8 (0.015 mi.)	3	13
Spill Number/Closed Date: 1511062 / Not Reported				
spillno: 1511062				
Site ID: 522778				
UNKNOWN	640 BOHEMIA PKWY	SW 0 - 1/8 (0.017 mi.)	5	15
Spill Number/Closed Date: 1004768 / 2011-06-06				
spillno: 1004768				
Site ID: 438054				
KOSTER KEUNEN COMPAN	BOURNE BLVD	SW 0 - 1/8 (0.055 mi.)	A11	20
Spill Number/Closed Date: 9010920 / 1991-02-06				
spillno: 9010920				
Site ID: 132114				
FAIRFIELD/SAYVILLE C	400 ADAMS WAY/LAKELA	NE 0 - 1/8 (0.067 mi.)	C12	21



## EXECUTIVE SUMMARY

Spill Number/Closed Date: 1604708 / 2016-08-09 spillNo: 1604708 Site ID: 531223				
FAIRFIELD/SAYVILLE C	400 ADAMS WAY/LAKELA	NE 0 - 1/8 (0.067 mi.)	C13	22
Spill Number/Closed Date: 1604699 / 2016-08-09 spillNo: 1604699 Site ID: 531214				
<b>CUMBERLAND FARMS # 7</b>	<b>4909 SUNRISE HWY</b>	<b>NNW 0 - 1/8 (0.098 mi.)</b>	<b>E17</b>	<b>39</b>
Spill Number/Closed Date: 1204916 / 2013-02-08 Spill Number/Closed Date: 0913512 / 2010-08-17 Spill Number/Closed Date: 0904734 / 2010-03-22 Spill Number/Closed Date: 0902645 / 2009-07-17 Spill Number/Closed Date: 0811344 / 2009-02-04 <i>*Additional key fields are available in the Map Findings section</i> spillNo: 1204916 spillNo: 0811344 spillNo: 0712416 spillNo: 0904734 spillNo: 0804031 <i>*Additional key fields are available in the Map Findings section</i> Site ID: 467822 Site ID: 408919 Site ID: 394025 Site ID: 416940 Site ID: 400865 <i>*Additional key fields are available in the Map Findings section</i>				
EXXON	4909 SUNRISE HIGHWAY	NNW 0 - 1/8 (0.098 mi.)	E19	51
Spill Number/Closed Date: 9712676 / 1998-09-23 Spill Number/Closed Date: 9005927 / 1990-09-14 spillNo: 9005927 spillNo: 9712676 Site ID: 248558 Site ID: 248572				
RESIDENCE	220 TERRY ROAD	SW 0 - 1/8 (0.099 mi.)	20	54
Spill Number/Closed Date: 1005397 / 2010-08-13 spillNo: 1005397 Site ID: 438712				
<b>KOSTER KEUNEN INC</b>	<b>90 BOURNE BLVD</b>	<b>SW 0 - 1/8 (0.109 mi.)</b>	<b>G22</b>	<b>56</b>
Spill Number/Closed Date: 8704744 / 1987-09-10 spillNo: 8704744 Site ID: 117339				
RESIDENCE	78 ISLAND BLVD	WNW 0 - 1/8 (0.124 mi.)	31	79
Spill Number/Closed Date: 0901692 / 2009-05-12 spillNo: 0901692 Site ID: 413701				
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CURCIO RESIDENCE	168 TERRY ROAD	SSW 0 - 1/8 (0.017 mi.)	4	14
Spill Number/Closed Date: 1111813 / 2012-01-31 spillNo: 1111813 Site ID: 459728				
E&B INDUSTRIAL CLEAN	LAKELAND AVE & SUNRI	NNE 0 - 1/8 (0.054 mi.)	B9	18



## EXECUTIVE SUMMARY

Spill Number/Closed Date: 8806243 / 1989-05-04 spillno: 8806243 Site ID: 186589				
OCEAN ROCK & DIVING	LAKELAND AVENUE	NNE 0 - 1/8 (0.054 mi.)	B10	19
Spill Number/Closed Date: 9708750 / 1999-09-22 spillno: 9708750 Site ID: 87163				
UNK	SUNRISE HWY & LAKELA	NNE 0 - 1/8 (0.103 mi.)	F21	55
Spill Number/Closed Date: 9506171 / 1995-08-23 spillno: 9506171 Site ID: 93090				
UNKNOWN	LAKELAND AVE/RTE 27	N 0 - 1/8 (0.117 mi.)	F25	72
Spill Number/Closed Date: 0402922 / 2004-06-17 spillno: 0402922 Site ID: 314666				
SAYVILLE BOWLING ALL	SUNRISE HWY & LAKELA	N 0 - 1/8 (0.117 mi.)	F26	73
Spill Number/Closed Date: 9012854 / 1991-03-28 spillno: 9012854 Site ID: 93089				
TRI VENTURE	SUNRISE HWY/LAKELAND	N 0 - 1/8 (0.117 mi.)	F27	75
Spill Number/Closed Date: 9712382 / 1998-07-06 spillno: 9712382 Site ID: 238082				
UNK	11TH ST/SUNRISE SOUT	N 0 - 1/8 (0.117 mi.)	F28	76
Spill Number/Closed Date: 0025378 / 2001-01-23 spillno: 0025378 Site ID: 82238				
UNKNOWN	SUNRISE HWY & LAKELA	N 0 - 1/8 (0.117 mi.)	F29	77
Spill Number/Closed Date: 8903887 / 1990-08-14 spillno: 8903887 Site ID: 83882				
UNKNOWN	LAKELAND AVE/SUNRISE	N 0 - 1/8 (0.117 mi.)	F30	78
Spill Number/Closed Date: 0401075 / 2004-10-06 spillno: 0401075 Site ID: 101173				

### Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/12/2016 has revealed that there are 6 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>EXXON DIV OF CFI #70</b>	<b>4909 SUNRISE HWY</b>	<b>NNW 0 - 1/8 (0.098 mi.)</b>	<b>E16</b>	<b>25</b>
<b>KOSTER KEUNEN INC</b>	<b>90 BOURNE BLVD</b>	<b>SW 0 - 1/8 (0.109 mi.)</b>	<b>G22</b>	<b>56</b>
<b>EDWARDS 0138</b>	<b>57-05 SUNRISE HWY</b>	<b>WNW 1/8 - 1/4 (0.184 mi.)</b>	<b>I37</b>	<b>101</b>



## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ARIEL GRAPHICS</b> <b>TARTAN OIL CO</b>	<b>80 BOURNE BLVD</b> <b>635 SMITHTOWN AVE</b>	<b>SW 1/8 - 1/4 (0.192 mi.)</b> <b>WNW 1/8 - 1/4 (0.208 mi.)</b>	<b>38</b> <b>I41</b>	<b>104</b> <b>118</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>WEST SAYVILLE IFS TR</b>	<b>CHERRY AVE</b>	<b>SSE 1/8 - 1/4 (0.241 mi.)</b>	<b>42</b>	<b>122</b>

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 01/30/2017 has revealed that there are 6 NY MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>EXXON DIV OF CFI #70</b> EPA ID: NYD986928687	<b>4909 SUNRISE HWY</b>	<b>NNW 0 - 1/8 (0.098 mi.)</b>	<b>E16</b>	<b>25</b>
<b>KOSTER KEUNEN INC</b> EPA ID: NYD002048593	<b>90 BOURNE BLVD</b>	<b>SW 0 - 1/8 (0.109 mi.)</b>	<b>G22</b>	<b>56</b>
<b>LEE CHEVROLET</b> EPA ID: NYD982737017	<b>4825 SUNRISE HWY</b>	<b>NW 1/8 - 1/4 (0.143 mi.)</b>	<b>H33</b>	<b>85</b>
<b>EDWARDS 0138</b> EPA ID: NYR000048744	<b>57-05 SUNRISE HWY</b>	<b>WNW 1/8 - 1/4 (0.184 mi.)</b>	<b>I37</b>	<b>101</b>
<b>TARTAN OIL CO</b> EPA ID: NYD986931954	<b>635 SMITHTOWN AVE</b>	<b>WNW 1/8 - 1/4 (0.208 mi.)</b>	<b>I41</b>	<b>118</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>WEST SAYVILLE IFS TR</b> EPA ID: NY8690536208	<b>CHERRY AVE</b>	<b>SSE 1/8 - 1/4 (0.241 mi.)</b>	<b>42</b>	<b>122</b>

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2016 has revealed that there is 1 NJ MANIFEST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LEE CHEVROLET INC.</b> EPA ID: NYD982737017	<b>4825 SUNRISE HWY</b>	<b>NW 1/8 - 1/4 (0.143 mi.)</b>	<b>H34</b>	<b>89</b>

### EDR HIGH RISK HISTORICAL RECORDS

#### **EDR Exclusive Records**

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected



## EXECUTIVE SUMMARY

listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 3 EDR Hist Auto sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PARK SUNOCO	4850 SUNRISE HWY	NW 0 - 1/8 (0.094 mi.)	D15	25
BOHEMIA DEVELOPMENT	4909 SUNRISE HWY	NNW 0 - 1/8 (0.098 mi.)	E18	50
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LONG ISLAND TOUCH UP	948 CHESTER RD	ENE 0 - 1/8 (0.025 mi.)	6	16

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SUBURBAN CRPT UPHLST	211 TERRY RD	SW 0 - 1/8 (0.048 mi.)	A7	16



## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name

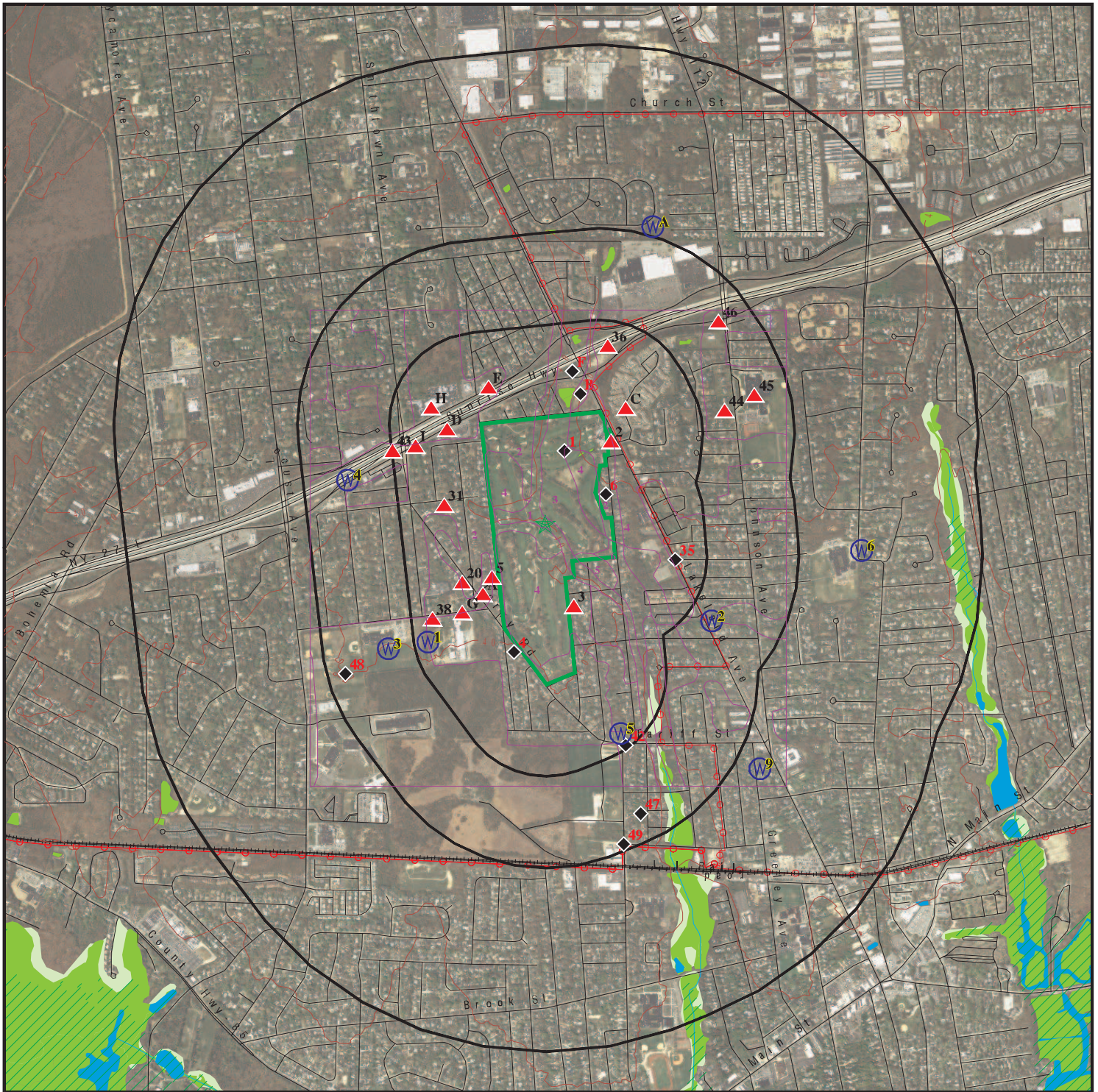
LINCOLN AVENUE  
S.C.W.A. WELLFIELD - BOHEMIA  
ISLAND HILLS GOLF CLUB  
ISLAND HILLS GOLF CLUB

Database(s)

SEMS-ARCHIVE, PRP  
NY SHWS  
NY UST  
NY AST



# OVERVIEW MAP - 5045648.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

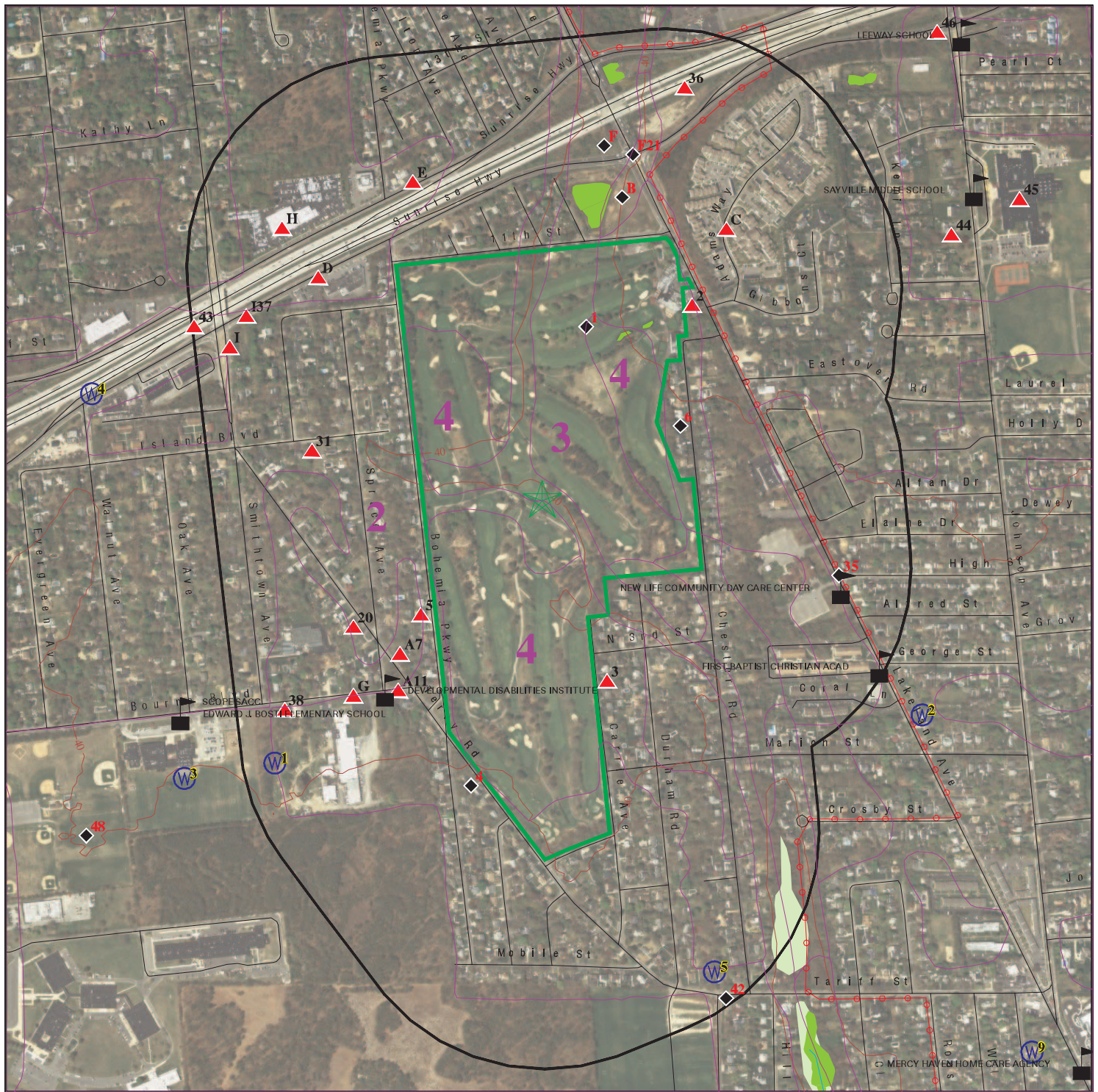
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Island Hills Golf Course  
ADDRESS: Lakeland Ave  
Sayville NY 11782  
LAT/LONG: 40.75413 / 73.099585

CLIENT: Partner Engineering and Science, Inc.  
CONTACT: Angelica Seals  
INQUIRY #: 5045648.2s  
DATE: September 11, 2017 10:18 am



# DETAIL MAP - 5045648.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Power transmission lines
- National Wetland Inventory
- State Wetlands

0 1/8 1/4 1/2 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Island Hills Golf Course  
 ADDRESS: Lakeland Ave  
 Sayville NY 11782  
 LAT/LONG: 40.75413 / 73.099585

CLIENT: Partner Engineering and Science, Inc.  
 CONTACT: Angelica Seals  
 INQUIRY #: 5045648.2s  
 DATE: September 11, 2017 10:20 am



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	1	0	NR	NR	1
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
NY SHWS	1.000		0	0	0	0	NR	0
NY VAPOR REOPENED	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
NY SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
INDIAN LUST	0.500		0	0	0	NR	NR	0
NY LTANKS	0.500		2	1	6	NR	NR	9
NY HIST LTANKS	0.500		0	0	0	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>State and tribal registered storage tank lists</b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
NY UST	0.250		5	3	NR	NR	NR	8
NY CBS UST	0.250		0	0	NR	NR	NR	0
NY MOSF UST	0.500		0	0	0	NR	NR	0
NY CBS	0.250		0	0	NR	NR	NR	0
NY MOSF	0.500		0	0	0	NR	NR	0
NY AST	0.250		2	4	NR	NR	NR	6
NY CBS AST	0.250		0	0	NR	NR	NR	0
NY MOSF AST	0.500		0	0	0	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
NY TANKS	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
NY RES DECL	0.125		0	NR	NR	NR	NR	0
NY ENG CONTROLS	0.500		0	0	0	NR	NR	0
NY INST CONTROL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
NY VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
NY BROWNFIELDS	0.500		0	0	0	NR	NR	0
NY ERP	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
NY SWRCY	0.500		0	0	0	NR	NR	0
NY SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
NY DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
NY HIST UST	0.250		0	0	NR	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY HIST AST	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
NY LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125		21	NR	NR	NR	NR	21
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
NY SPILLS 90	0.125		0	NR	NR	NR	NR	0
NY SPILLS 80	0.125		0	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		2	4	NR	NR	NR	6
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY AIRS	TP		NR	NR	NR	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
NY DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NY E DESIGNATION	0.125		0	NR	NR	NR	NR	0
NY Financial Assurance	TP		NR	NR	NR	NR	NR	0
NY HSWDS	0.500		0	0	0	NR	NR	0
NY MANIFEST	0.250		2	4	NR	NR	NR	6
NJ MANIFEST	0.250		0	1	NR	NR	NR	1
NY SPDES	TP		NR	NR	NR	NR	NR	0
NY UIC	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		3	NR	NR	NR	NR	3
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

NY RGA HWS	TP		NR	NR	NR	NR	NR	0
NY RGA LF	TP		NR	NR	NR	NR	NR	0

- Totals --		0	38	19	6	0	0	63
-------------	--	---	----	----	---	---	---	----

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

1  
ISLAND HILLS GOLF CLUB  
CNTY RD 93 LAKELAND AVE  
SAYVILLE, NY 11782  
1 ft.

NY UST  
NY AST  
U003843439  
N/A

Relative:  
Lower

Actual:  
32 ft.

SUFFOLK CO. UST:

Region: SUFFOLK  
Site Ref#: 11452  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

Facility Info:

Site Ref#: 11452  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: ISLAND HILLS GOLF CLUB  
Storage Owner Address: LAKELAND AVE.  
Storage Owner City: SAYVILLE  
Storage Owner State: NY  
Storage Owner Zip: 11782

Tank Info:

Facility ID: 11452  
Facility Reference #: 07235  
Official Use: Removed Tank. 86  
Township: ISLIP  
Tax Map No: 0500 280.00 001 015.000  
Region: SUFFOLK  
Permit to Operate: Not reported

Tank ID: 1  
Tank Key: 31792  
Installed: 77  
Capacity: 0000002000  
Substance: GASOLINE  
Date Removed: 010186  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000002000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ISLAND HILLS GOLF CLUB (Continued)**

**U003843439**

Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010186  
Year Installed: 77  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 2  
Tank Key: 31793  
Installed: 86  
Capacity: 0000001000  
Substance: GASOLINE  
Date Removed: Not reported  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: Not reported  
Year Installed: 86  
Description of drop records: RECORDS AS OF 09/10/2013

**AST\_SUFFOLK:**

Region: SUFFOLK  
Site Ref#: 11452  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

**Facility Info:**

Site Ref#: 11452  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: ISLAND HILLS GOLF CLUB  
Storage Owner Address: LAKELAND AVE.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ISLAND HILLS GOLF CLUB (Continued)**

**U003843439**

Storage Owner City: SAYVILLE  
Storage Owner State: NY  
Storage Owner Zip: 11782

**Tank Info:**

Facility ID: 11452  
Facility Reference #: 07235  
Township: ISLIP  
Tax Map No: 0500  
Region: SUFFOLK

Tank ID: 3  
Tank Key: 31794  
Year Installed: 79  
Substance: DIESEL  
Construction: STEEL  
Dispenser: SUCTION  
Official Use: Removed Tank. 98  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000275  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 083198

Tank ID: 4  
Tank Key: 31795  
Year Installed: Not reported  
Substance: CHEMICAL STORAGE CON  
Construction: Not reported  
Dispenser: Not reported  
Official Use: Removed Tank. 98  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ISLAND HILLS GOLF CLUB (Continued)

U003843439

Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	Not reported
Date Removed:	031798
Tank ID:	5
Tank Key:	31796
Year Installed:	Not reported
Substance:	DIESEL
Construction:	STEEL
Dispenser:	SUCTION
Official Use:	Permitted Tank. Permit Runs Out. 04
Permit to Operate:	051099
Tank Location:	ABOVE
Tank Status:	Not reported
Total Capacity:	0000000300
Date Permitted:	Not reported
Date Closed:	Not reported
Internal Protection:	Not reported
Secondary Containment:	Not reported
Extrenal Protection:	Not reported
Leak Detection:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	PUMPED
Date Removed:	Not reported

2  
NE  
< 1/8  
0.010 mi.  
52 ft.

ISLAND HILLS GOLF CLUB  
458 LAKELAND AVENUE  
SAYVILLE, NY

NY Spills S107521425  
N/A

Relative:  
Higher

Actual:  
45 ft.

SPILLS:

Facility ID:	0511071
Facility Type:	ER
DER Facility ID:	307187
Site ID:	357155
DEC Region:	1
Spill Date:	2005-12-21
Spill Number/Closed Date:	0511071 / 2006-03-21
Spill Cause:	Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ISLAND HILLS GOLF CLUB (Continued)**

**S107521425**

SWIS: 5228  
Investigator: HMCIRRIT  
Referred To: Not reported  
Reported to Dept: 2005-12-21  
CID: 408  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Tank Tester  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2005-12-21  
Spill Record Last Update: 2014-09-22  
Spiller Name: JOHN GENOVESI  
Spiller Company: ISLAND HILLS GOLF CLUB  
Spiller Address: 458 LAKELAND AVE  
Spiller City,St,Zip: SAYVILLE, NY  
Spiller Company: 001  
Contact Name: JOHN  
Contact Phone: (631) 445-7092  
DEC Memo: "12/21/05 15:25 LEFT MESSAGE FOR STEVE-G&M DEGE, LINE TEST, BAD CHECK VALVE, DOES NOT BELIEVE THERE IS A SPILL, PLANS TO RETEST LINE REPLACED CHECK VALVE, ACTUALLY FOUND SYSTEM TO HAVE 2 DO THEY REMOVED THE ONE AT THE TANK TOP"  
Remarks: "SUFFOLK CTY #05-0623. 99% SURE THAT THE PRODUCT IS GOING BACK INTO THE TANK."

Material:  
Site ID: 357155  
Operable Unit ID: 1114434  
Operable Unit: 01  
Material ID: 2104507  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

3  
SSE  
< 1/8  
0.015 mi.  
81 ft.

UNKNOWN  
67 CARRIE AVENUE  
SAYVILLE, NY

NY Spills S118636057  
N/A

Relative:  
Higher

Actual:  
43 ft.

SPILLS:

Facility ID: 1511062  
Facility Type: ER  
DER Facility ID: 477035  
Site ID: 522778  
DEC Region: 1  
Spill Date: 2016-02-17  
Spill Number/Closed Date: 1511062 / Not Reported  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 5228  
Investigator: hmcirrit  
Referred To: Not reported  
Reported to Dept: 2016-02-17  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Transformer  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 1  
Date Entered In Computer: 2016-02-17  
Spill Record Last Update: 2016-02-18  
Spiller Name: BILLY STUBER  
Spiller Company: PSEG/LIPA  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller Company: 999  
Contact Name: BILLY STUBER  
Contact Phone: (917) 578-0160  
DEC Memo: "TRANSFORMER 65850"  
Remarks: "loss to hole, c/u pending"

Material:

Site ID: 522778  
Operable Unit ID: 1271782  
Operable Unit: 01  
Material ID: 2276092  
Material Code: 0020A  
Material Name: transformer oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

EDR ID Number  
EPA ID Number

4  
SSW  
< 1/8  
0.017 mi.  
89 ft.

**CURCIO RESIDENCE**  
**168 TERRY ROAD**  
**SAYVILLE, NY**

**NY Spills S111457531**  
**N/A**

**Relative:**  
**Lower**

**Actual:**  
**39 ft.**

**SPILLS:**

Facility ID: 1111813  
Facility Type: ER  
DER Facility ID: 414187  
Site ID: 459728  
DEC Region: 1  
Spill Date: 2012-01-07  
Spill Number/Closed Date: 1111813 / 2012-01-31  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2012-01-07  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2012-01-07  
Spill Record Last Update: 2012-04-24  
Spiller Name: MR. CURCIO  
Spiller Company: CURCIO RESIDENCE  
Spiller Address: 168 TERRY RD  
Spiller City,St,Zip: SAYVILLE, NY  
Spiller Company: 999  
Contact Name: MR. CURCIO  
Contact Phone: 6315673419  
DEC Memo: "1/7/2011 12:50 t/c from Mike Delgado, Islip Hazmat on site. -Leak stopped, speedy dry deployed to the basement floor. -No drains/ soil affected. -House is owner occupied. -Advised Delgado that the home owner is responsible for the cleanup. -Islip FM to issue cleanup forthwith. (BD) 01/10/12 1205 Hrs (A): HUGO (SERV-PRO) called to determine whether an inspector had been assigned. 01/10/12 1205 Hrs (B): Informed him of what this office had been told, and that no inspector had been assigned. HE CONFIRMED THE SPILLAGE WAS ONLY ON CONCRETE. 01/10/12 1205 Hrs (C): Directed him to send a letter summarizing what had happened; what was impacted; what was performed for a cleanup; etc to the Reg Spill Engineer requesting closure. DR"

Remarks: "40 gal from hole in tank, patch on tank, 4 bags of speedie dry down, contained in concrete basement."

**Material:**

Site ID: 459728  
Operable Unit ID: 1209811  
Operable Unit: 01  
Material ID: 2207363  
Material Code: 0001A



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURCIO RESIDENCE (Continued)**

**S111457531**

Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 40.00  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

**5**  
**SW**  
**< 1/8**  
**0.017 mi.**  
**91 ft.**

**UNKNOWN**  
**640 BOHEMIA PKWY**  
**SAYVILLE, NY**

**NY Spills S110490436**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**43 ft.**

**SPILLS:**  
Facility ID: 1004768  
Facility Type: ER  
DER Facility ID: 393028  
Site ID: 438054  
DEC Region: 1  
Spill Date: 2010-07-27  
Spill Number/Closed Date: 1004768 / 2011-06-06  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
**SWIS:**  
5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2010-07-27  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2010-07-27  
Spill Record Last Update: 2011-06-08  
Spiller Name: JOSEPH BARBERA  
Spiller Company: NATIONAL GRID/LIPA  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller Company: 999  
Contact Name: JOSPEH BARBERA  
Contact Phone: (516) 790-5726  
DEC Memo: "POLE 35 TRANSFORMER"  
Remarks: "APPROX 1 GALLON DOWN POLE TO PAVEMENT/SOIL. CLEANUP PENDING."  
**Material:**  
Site ID: 438054  
Operable Unit ID: 1188713



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNKNOWN (Continued)**

**S110490436**

Operable Unit: 01  
Material ID: 2183650  
Material Code: 0020A  
Material Name: transformer oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1.00  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

**6**  
**ENE**  
**< 1/8**  
**0.025 mi.**  
**131 ft.**

**LONG ISLAND TOUCH UP INC**  
**948 CHESTER RD**  
**SAYVILLE, NY 11782**

**EDR Hist Auto 1021480101**  
**N/A**

**Relative:**  
**Lower**

EDR Hist Auto

**Actual:**  
**39 ft.**

Year:	Name:	Type:
2011	LONG ISLAND TOUCH UP INC	General Automotive Repair Shops
2012	LONG ISLAND TOUCH UP INC	General Automotive Repair Shops
2013	LONG ISLAND TOUCH UP INC	General Automotive Repair Shops

**A7**  
**SW**  
**< 1/8**  
**0.048 mi.**  
**252 ft.**

**SUBURBAN CRPT UPHLSTRY CLG SVC**  
**211 TERRY RD**  
**SAYVILLE, NY 11782**

**EDR Hist Cleaner 1018460615**  
**N/A**

**Relative:**  
**Higher**

EDR Hist Cleaner

**Actual:**  
**43 ft.**

Year:	Name:	Type:
2006	SUBURBAN CRPT UPHLSTRY CLG SVC	Carpet And Upholstery Cleaning On Customer Premises
2007	SUBURBAN CRPT UPHLSTRY CLG SVC	Carpet And Upholstery Cleaning On Customer Premises
2008	SUBURBAN CRPT UPHLSTRY CLG SVC	Carpet And Upholstery Cleaning On Customer Premises
2009	SUBURBAN CRPT UPHLSTRY CLG SVC	Carpet And Upholstery Cleaning On Customer Premises
2010	SUBURBAN CRPT UPHLSTRY CLG SVC	Carpet And Upholstery Cleaning On Customer Premises
2011	SUBURBAN CRPT UPHLSTRY CLG SVC	Carpet And Upholstery Cleaning On Customer Premises
2012	SUBURBAN CRPT UPHLSTRY CLG SVC	Carpet And Upholstery Cleaning On Customer Premises
2013	SUBURBAN CRPT UPHLSTRY CLG SVC	Carpet And Upholstery Cleaning On Customer Premises
2014	SUBURBAN CRPT UPHLSTRY CLG SVC	Carpet And Upholstery Cleaning On Customer Premises



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

EDR ID Number  
EPA ID Number

B8  
NNE  
< 1/8  
0.054 mi.  
283 ft.

SUNRISE GARDEN APT  
LAKELAND AVENUE  
BOHEMIA, NY

NY LTANKS

S102660068  
N/A

Site 1 of 3 in cluster B

Relative:  
Lower

LTANKS:

Actual:  
40 ft.

Site ID: 87162  
Spill Number/Closed Date: 9704618 / 1997-08-14  
Spill Date: 1997-07-17  
Spill Cause: Tank Failure  
Spill Source: Commercial/Industrial  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: True  
SWIS: 5200  
Investigator: BPAUSTIN  
Referred To: Not reported  
Reported to Dept: 1997-07-17  
CID: 257  
Water Affected: Not reported  
Spill Notifier: Health Department  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1997-07-17  
Spill Record Last Update: 1997-08-15  
Spiller Name: NONE  
Spiller Company: SUNRISE GARDEN APT  
Spiller Address: LAKELAND AVENUE  
Spiller City,St,Zip: BOHEMIA, NY  
Spiller County: 001  
Spiller Contact: NONE  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 79894  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
AUSTIN 3K #2 FUEL OIL WITH 2 PINHOLES, THEY'RE AWAITING DEC  
INSPECTION, SEWER LINE IS VISIBLE IN THE TANK HOLE, TANKS STILL ON  
SITE FOR INSPECTION AUSTIN ON SITE, THOROUGHLY CHECKED UNDISTURBED  
SOILS OF EXCAVATION BY VISUAL, FACTORY, AND PID. SOIL IS DISCOLORED  
FROM RUST AND TAR LIKE COATING OF TANKS. HOWEVER, NO INDICATION OF  
PETROLEUM CONTAMINATION FOUND IN ANY SAMPLE"  
Remarks: "DURING TANK REMOVAL THEY FOUND CONTAMINATED SOIL UNDER TANK"

Material:

Site ID: 87162  
Operable Unit ID: 1050482  
Operable Unit: 01  
Material ID: 553453  
Material Code: 0001A  
Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE GARDEN APT (Continued)**

**S102660068**

Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

**B9**  
**NNE**  
**< 1/8**  
**0.054 mi.**  
**283 ft.**

**E&B INDUSTRIAL CLEANING**  
**LAKELAND AVE & SUNRISE HWY**  
**BOHEMIA, NY**

**NY Spills S102095319**  
**N/A**

**Site 2 of 3 in cluster B**

**Relative:**  
**Lower**

**Actual:**  
**40 ft.**

**SPILLS:**

Facility ID: 8806243  
Facility Type: ER  
DER Facility ID: 155953  
Site ID: 186589  
DEC Region: 1  
Spill Date: 1988-10-25  
Spill Number/Closed Date: 8806243 / 1989-05-04  
Spill Cause: Deliberate  
Spill Class: Not reported  
SWIS: 5228  
Investigator: CXONEILL  
Referred To: Not reported  
Reported to Dept: 1988-10-25  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: Police Department  
Cleanup Ceased: 1989-05-04  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1988-10-26  
Spill Record Last Update: 2006-06-05  
Spiller Name: Not reported  
Spiller Company: E&B INDUSTRIAL CLEANING  
Spiller Address: 50 NORTH BROOK AVENUE  
Spiller City,St,Zip: DEER PARK, NY  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
O'NEILL FD 05/02/89: TOWN OF ISLIP PERSONNEL WOULD NOT RETURN CALLS  
REGARDING SAMPLE OF SOIL COLLECTED BY TOWN PERSONNEL.O'NEILL  
RE-INSPECTED SITE ON 5/1/89 AREA CLEANED UP,NO SOIL CONTAMINATION  
EVIDENT. FILE HAS BEEN DESTROYED ACCORDING TO STATE ARCHIVE AND  
RECORD ADMINISTRATOR RETENTION/DISPOSAL PROCEDURES "

Remarks: "TOWN ENVIRONMENTAL UNIT WITNESSED DUMPING & STOPPED VEHICLE"

**Material:**

Site ID: 186589  
Operable Unit ID: 921399  
Operable Unit: 01



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**E&B INDUSTRIAL CLEANING (Continued)**

**S102095319**

Material ID: 454593  
Material Code: 1133A  
Material Name: industrial sludge  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

**B10**  
**NNE**  
**< 1/8**  
**0.054 mi.**  
**283 ft.**

**OCEAN ROCK & DIVING**  
**LAKELAND AVENUE**  
**BOHEMIA, NY**  
**Site 3 of 3 in cluster B**

**NY Spills S102661222**  
**N/A**

**Relative:**  
**Lower**

**Actual:**  
**40 ft.**

**SPILLS:**  
Facility ID: 9708750  
Facility Type: ER  
DER Facility ID: 79894  
Site ID: 87163  
DEC Region: 1  
Spill Date: 1997-10-26  
Spill Number/Closed Date: 9708750 / 1999-09-22  
Spill Cause: Deliberate  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
  
**SWIS:**  
Investigator: RDDECAND  
Referred To: Not reported  
Reported to Dept: 1997-10-27  
CID: 365  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Affected Persons  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1997-10-27  
Spill Record Last Update: 1999-09-23  
Spiller Name: Not reported  
Spiller Company: OCEAN ROCK & DIVING  
Spiller Address: LAKELAND AVENUE  
Spiller City,St,Zip: BOHEMIA, NY  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
DECANDIA CLEANUP COMPLETE 4 DRUMS OF SOIL EXCAVATED, ONLY REC'VD  
DISPOSAL MANIFESTS FOR 1 DRUM. NO FURTHER ACTION,NO DISPOSAL LETTER



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

OCEAN ROCK & DIVING (Continued)

S102661222

Remarks: SENT"  
"RIGHT NEXT TO PETS WAREHOUSE - OIL FROM THEIR COMPRESSORS IS COMING OUT OF A PIPE THAT GOES RIGHT TO THE GROUND - THERE IS A 10 FT AREA CONTAMINATED WITH OIL, AS WELL AS THE SIDE OF THE BUILDING. THERE IS ALSO A DEAD BUSH THERE."

Material:  
Site ID: 87163  
Operable Unit ID: 1051821  
Operable Unit: 01  
Material ID: 330700  
Material Code: 9999  
Material Name: other -  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

A11  
SW  
< 1/8  
0.055 mi.  
290 ft.

KOSTER KEUNEN COMPANY  
BOURNE BLVD  
SAYVILLE, NY

NY Spills S102097441  
N/A

Site 2 of 2 in cluster A

Relative:  
Higher

Actual:  
43 ft.

SPILLS:  
Facility ID: 9010920  
Facility Type: ER  
DER Facility ID: 113800  
Site ID: 132114  
DEC Region: 1  
Spill Date: 1990-04-11  
Spill Number/Closed Date: 9010920 / 1991-02-06  
Spill Cause: Deliberate  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)  
SWIS: 5228  
Investigator: LUCE  
Referred To: Not reported  
Reported to Dept: 1991-01-11  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Institutional, Educational, Gov., Other  
Spill Notifier: DEC  
Cleanup Ceased: 1991-02-06  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1991-01-15  
Spill Record Last Update: 2009-07-31  
Spiller Name: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN COMPANY (Continued)**

**S102097441**

Spiller Company: KOSTER KEUNEN COMPANY  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "NO ACTION REQUIRED, REF TO HAZ WASTE"  
Remarks: "MOULTANT BLACK LIQUID POURED INTO PITS DUG INTO GROUND THEN COVERING UP AGAIN. LOCATED IN BACK OF FACILITY"

**Material:**

Site ID: 132114  
Operable Unit ID: 948007  
Operable Unit: 01  
Material ID: 431026  
Material Code: 0066A  
Material Name: unknown petroleum  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

**C12**  
**NE**  
**< 1/8**  
**0.067 mi.**  
**356 ft.**

**FAIRFIELD/SAYVILLE COMMONS**  
**400 ADAMS WAY/LAKELAND AVENUE**  
**SAYVILLE, NY**

**NY Spills S118707483**  
**N/A**

**Site 1 of 2 in cluster C**

**Relative:**  
**Higher**

**SPILLS:**

Facility ID: 1604708  
Facility Type: ER  
DER Facility ID: 485273  
Site ID: 531223  
DEC Region: 1  
Spill Date: 2016-08-09  
Spill Number/Closed Date: 1604708 / 2016-08-09  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:**  
**46 ft.**

SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2016-08-09  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: Local Agency  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRFIELD/SAYVILLE COMMONS (Continued)**

**S118707483**

Remediation Phase: 0  
Date Entered In Computer: 2016-08-09  
Spill Record Last Update: 2016-09-07  
Spiller Name: Not reported  
Spiller Company: JET SANITATION  
Spiller Address: 228 BLYDENBURG RD  
Spiller City,St,Zip: ISLANDIA, NY  
Spiller Company: 999  
Contact Name: PETER RITTER  
Contact Phone: (631) 467-3279  
DEC Memo: \*\*\*\*SAME AS 1604699 (REPORTED BY A CITIZEN)- SEE IT FOR DETAILS\*\*\* DR

08/09/16 1210 Hrs (A): Called Ritter- informed him of the above number. 08/09/16 1210 Hrs (B): He said a HazMat member is on scene and confirms that it appears only about 10gal of fluid was involved and that only the roadway was impacted. Jet will clean up the spillage today, and HazMat does not feel a DEC response is necessary at this time. 08/09/16 1210 Hrs (C): DEC directed the Town to call back should the situation change. DR"

Remarks: "The spill was over asphalt. The cleanup is pending"

**Material:**

Site ID: 531223  
Operable Unit ID: 1280005  
Operable Unit: 01  
Material ID: 2285103  
Material Code: 0010  
Material Name: hydraulic oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 10.00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

**C13  
NE  
< 1/8  
0.067 mi.  
356 ft.**

**FAIRFIELD/SAYVILLE COMMONS  
400 ADAMS WAY/LAKELAND AVENUE  
SAYVILLE, NY**

**NY Spills S118707474  
N/A**

**Site 2 of 2 in cluster C**

**Relative:  
Higher**

**SPILLS:**

Facility ID: 1604699  
Facility Type: ER  
DER Facility ID: 485273  
Site ID: 531214  
DEC Region: 1  
Spill Date: 2016-08-06  
Spill Number/Closed Date: 1604699 / 2016-08-09  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:  
46 ft.**

SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRFIELD/SAYVILLE COMMONS (Continued)**

**S118707474**

Reported to Dept: 2016-08-09  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: Citizen  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2016-08-09  
Spill Record Last Update: 2016-09-07  
Spiller Name: Not reported  
Spiller Company: JET SANITATION  
Spiller Address: 228 BLYDENBURG RD  
Spiller City,St,Zip: ISLANDIA, NY  
Spiller Company: 999  
Contact Name: LINDA WARD  
Contact Phone: (631) 885-1277  
DEC Memo: "ROADWAY AND PARKING LOT \*\*\*SAME AS 1604708 (REPORTED BY ISLIP TOWN HAZMAT)- SEE IT FOR DETAILS\*\*\* DR 08/09/16 1040 Hrs: Called Islip Town HazMat (631-467-3279), explained the situation, informed them there were no DEC inspectors readily available, and asked whether they could respond and call back with an update. DR 08/09/16 1045 Hrs: Checked Google Earth and the internet- THE NAME AND ADDRESS IS APPARENTLY INACCURATE, AS 400 LAKELAND IS A VFW HALL. There is a housing complex (SAYVILLE COMMONS) at the SE corner of Sunrise Highway and Lakeland, and the office is at 400 ADAMS WAY in the complex. DR 08/09/16 1055 Hrs: Left message for Ward- please clarify the address. DR 08/09/16 1055 Hrs: Called Islip Town Hazmat- informed them of the apparent inaccurate address. They had also noticed this, suspected the correct location to be Sayville Commons, and said they have an inspector who lives in that complex responding from Bay Shore. They also said this just changed ownership to FAIRFIELD KNOLLS AT SAYVILLE . DR 8/9/16 1340 Hrs: RJP took call from Linda Ward. Correct address is 400 Adams way, entrance to complex off Lakeland near VFD. Also she stated HazMat claimed this material is cooking oil and no cleanup is warranted. RJP."  
Remarks: "spilled to asphalt in every driveway that the truck backed into - clean up pending"

Material:  
Site ID: 531214  
Operable Unit ID: 1279996  
Operable Unit: 01  
Material ID: 2285094  
Material Code: 0010  
Material Name: hydraulic oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRFIELD/SAYVILLE COMMONS (Continued)**

**S118707474**

Tank Test:

**D14  
NW  
< 1/8  
0.090 mi.  
474 ft.**

**JFA COLLISION  
1 ARTIC AVE  
BOHEMIA, NY 11716  
Site 1 of 2 in cluster D**

**NY UST U003538708  
N/A**

**Relative:  
Higher**

**SUFFOLK CO. UST:**

**Actual:  
48 ft.**

Region: SUFFOLK  
Site Ref#: 10017  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

**Facility Info:**

Site Ref#: 10017  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: JFA COLLISION  
Storage Owner Address: 1 ARTIC AVE  
Storage Owner City: BOHEMIA  
Storage Owner State: NY  
Storage Owner Zip: 11716

**Tank Info:**

Facility ID: 10017  
Facility Reference #: 14315  
Official Use: Removed Tank. 90  
Township: ISLIP  
Tax Map No: 0500 191.00 002 062.000  
Region: SUFFOLK  
Permit to Operate: Not reported

Tank ID: 1  
Tank Key: 29105  
Installed: Not reported  
Capacity: 0000000275  
Substance: WASTE OIL  
Date Removed: 060890  
Construction: Not reported  
Dispenser: Not reported  
Fill Type: Not reported  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000000275  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JFA COLLISION (Continued)**

**U003538708**

Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	Not reported
Date Removed:	060890
Year Installed:	Not reported
Description of drop records:	RECORDS AS OF 09/10/2013

**D15  
NW  
< 1/8  
0.094 mi.  
496 ft.**

**PARK SUNOCO  
4850 SUNRISE HWY  
SAYVILLE, NY 11782**

**EDR Hist Auto 1021144916  
N/A**

**Site 2 of 2 in cluster D**

**Relative:  
Higher**

EDR Hist Auto

**Actual:  
48 ft.**

Year:	Name:	Type:
2001	PARK SUNOCO	Gasoline Service Stations
2002	PARK SUNOCO	Gasoline Service Stations
2003	PARK SUNOCO	Gasoline Service Stations
2004	PARK SUNOCO	Gasoline Service Stations
2005	PARK SUNOCO	Gasoline Service Stations, NEC
2006	PARK SUNOCO	Gasoline Service Stations, NEC
2007	PARK SUNOCO	Gasoline Service Stations, NEC
2008	PARK SUNOCO	Gasoline Service Stations, NEC
2009	PARK SUNOCO	Gasoline Service Stations, NEC
2010	PARK SUNOCO	Gasoline Service Stations, NEC
2011	PARK SUNOCO	Gasoline Service Stations, NEC

**E16  
NNW  
< 1/8  
0.098 mi.  
515 ft.**

**EXXON DIV OF CFI #70209  
4909 SUNRISE HWY  
BOHEMIA, NY 11716**

**NY UST 1000457607  
RCRA NonGen / NLR NYD986928687  
NY MANIFEST**

**Site 1 of 4 in cluster E**

**Relative:  
Higher**

SUFFOLK CO. UST:

Region:	SUFFOLK
Site Ref#:	09474
Status:	Not reported
Site Type:	Not reported
Operating Permit Expires:	Not reported
Owner/Storage Information:	Not reported

Facility Info:

Site Ref#:	09474
Billing Contact:	Not reported
Billing Address:	Not reported
Billing Address:	Not reported
Billing State:	Not reported
Billing Zip:	Not reported
Storage Owner:	CUMBERLAND FARMS



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

Storage Owner Address: 777 DEDHAM ST  
Storage Owner City: CANTON  
Storage Owner State: MA  
Storage Owner Zip: 02021

**Tank Info:**

Facility ID: 09474  
Facility Reference #: 12578  
Official Use: Removed Tank. 90  
Township: ISLIP  
Tax Map No: 0500 256.00 002 045.000  
Region: SUFFOLK  
Permit to Operate: Not reported

Tank ID: 1  
Tank Key: 26374  
Installed: 77  
Capacity: 0000008000  
Substance: GASOLINE  
Date Removed: 111490  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000008000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 111490  
Year Installed: 77  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 2  
Tank Key: 26375  
Installed: 81  
Capacity: 0000010000  
Substance: GASOLINE  
Date Removed: 111490  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

Total Capacity: 0000010000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 111490  
Year Installed: 81  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 3  
Tank Key: 26376  
Installed: 81  
Capacity: 0000006000  
Substance: GASOLINE  
Date Removed: 111490  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000006000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 111490  
Year Installed: 81  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 4  
Tank Key: 26377  
Installed: 81  
Capacity: 0000001000



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

Substance: WASTE OIL  
Date Removed: 120998  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 120998  
Year Installed: 81  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 5  
Tank Key: 26378  
Installed: Not reported  
Capacity: 0000001000  
Substance: WASTE OIL  
Date Removed: 010181  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010181  
Year Installed: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 6  
Tank Key: 26379  
Installed: Not reported  
Capacity: 0000006000  
Substance: GASOLINE  
Date Removed: 010181  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000006000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010181  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 7  
Tank Key: 26380  
Installed: Not reported  
Capacity: 0000006000  
Substance: GASOLINE  
Date Removed: 010181  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000006000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010181  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 8  
Tank Key: 26381  
Installed: Not reported  
Capacity: 0000003000  
Substance: GASOLINE  
Date Removed: 010181  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000003000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010181  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 9  
Tank Key: 26382  
Installed: Not reported  
Capacity: 0000001000  
Substance: #2 FUEL OIL  
Date Removed: 010181  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 010181  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 10  
Tank Key: 26383  
Installed: 81  
Capacity: 0000001000  
Substance: #2 FUEL OIL  
Date Removed: Not reported  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: Not reported  
Year Installed: 81  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 11  
Tank Key: 26384  
Installed: 90  
Capacity: 0000012000  
Substance: GASOLINE  
Date Removed: Not reported  
Construction: FRP / FRP  
Dispenser: SUBMERSIBLE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000012000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: Not reported  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 12  
Tank Key: 26385  
Installed: 90  
Capacity: 0000012000  
Substance: GASOLINE  
Date Removed: Not reported  
Construction: FRP / FRP  
Dispenser: SUBMERSIBLE  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000012000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: Not reported  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 13



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

Tank Key: 26386  
Installed: 90  
Capacity: 0000012000  
Substance: GASOLINE  
Date Removed: Not reported  
Construction: FRP / FRP  
Dispenser: SUBMERSIBLE  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000012000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: Not reported  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 14  
Tank Key: 26388  
Installed: 90  
Capacity: 0000001000  
Substance: WASTE OIL  
Date Removed: 042501  
Construction: FRP / FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

Fill: GRAVITY  
Date Removed: 042501  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 15  
Tank Key: 26387  
Installed: 90  
Capacity: 0000001000  
Substance: #2 FUEL OIL  
Date Removed: 042501  
Construction: FRP / FRP  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 042501  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

**RCRA NonGen / NLR:**

Date form received by agency: 01/01/2007  
Facility name: EXXON DIV OF CFI #70209  
Facility address: 4909 SUNRISE HWY  
BOHEMIA, NY 11716  
EPA ID: NYD986928687  
Mailing address: DEDHAM ST  
CANTON, MA 02021  
Contact: MAUREEN JERNSTEDT  
Contact address: DEDHAM ST  
CANTON, MA 02021  
Contact country: US  
Contact telephone: (800) 225-9702  
Telephone ext.: 3378  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

Owner/Operator Summary:

Owner/operator name: NO NAME FOUND  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 09/10/2003  
Owner/Op end date: Not reported

Owner/operator name: NO NAME FOUND  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 09/10/2003  
Owner/Op end date: Not reported

Owner/operator name: CUMBERLAND FARMS INC  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 09/10/2003  
Owner/Op end date: Not reported

Owner/operator name: TOSCO  
Owner/operator address: PO BOX 52085  
PHOENIX, AZ 85072  
Owner/operator country: Not reported  
Owner/operator telephone: (602) 728-8000  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: CUMBERLAND FARMS INC  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 09/10/2003  
Owner/Op end date: Not reported

Owner/operator name: TOSCO  
Owner/operator address: PO BOX 52085  
PHOENIX, AZ 85072  
Owner/operator country: US  
Owner/operator telephone: (602) 728-8000  
Legal status: Private



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

Owner/Operator Type: Owner  
Owner/Op start date: 01/01/2001  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Site name: EXXON DIV OF CFI #70209  
Classification: Not a generator, verified

Date form received by agency: 10/01/2004  
Site name: EXXON DIV OF CFI #70209  
Classification: Small Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

Date form received by agency: 08/08/2001  
Site name: TOSCO #34638  
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000  
. Waste name: Not Defined

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D006  
. Waste name: CADMIUM

. Waste code: D007  
. Waste name: CHROMIUM

. Waste code: D008  
. Waste name: LEAD

. Waste code: D018  
. Waste name: BENZENE

. Waste code: F001



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 07/08/1999  
Site name: TOSCO #34638  
Classification: Not a generator, verified

Date form received by agency: 02/25/1992  
Site name: EXXON #31720  
Classification: Large Quantity Generator

Date form received by agency: 10/24/1990  
Site name: TOSCO #34638  
Classification: Large Quantity Generator

Violation Status: No violations found

**NY MANIFEST:**

Country: USA  
EPA ID: NYD986928687  
Facility Status: Not reported  
Location Address 1: 4909 SUNRISE HIGHWAY  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: BOHEMIA  
Location State: NY  
Location Zip: 11716  
Location Zip 4: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON DIV OF CFI #70209 (Continued)**

**1000457607**

NY MANIFEST:

EPAID: NYD986928687  
Mailing Name: EXXON  
Mailing Contact: EXXON  
Mailing Address 1: P O BOX 2180  
Mailing Address 2: Not reported  
Mailing City: HOUSTON  
Mailing State: TX  
Mailing Zip: 77252  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 0000000000

NY MANIFEST:

Document ID: NJA2892443  
Manifest Status: Not reported  
seq: 01  
Year: 1999  
Trans1 State ID: S6993  
Trans2 State ID: Not reported  
Generator Ship Date: 01/06/1999  
Trans1 Recv Date: 01/06/1999  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 01/06/1999  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYD986928687  
Trans1 EPA ID: NJD980772768  
Trans2 EPA ID: Not reported  
TSDF ID 1: NJD991291105  
TSDF ID 2: Not reported  
Manifest Tracking Number: Not reported  
Import Indicator: Not reported  
Export Indicator: Not reported  
Discr Quantity Indicator: Not reported  
Discr Type Indicator: Not reported  
Discr Residue Indicator: Not reported  
Discr Partial Reject Indicator: Not reported  
Discr Full Reject Indicator: Not reported  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: Not reported  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 00055  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 001  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 01.00



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

EXXON DIV OF CFI #70209 (Continued)

1000457607

[Click this hyperlink](#) while viewing on your computer to access  
9 additional NY\_MANIFEST: record(s) in the EDR Site Report.

E17  
NNW  
< 1/8  
0.098 mi.  
515 ft.

CUMBERLAND FARMS # 70209  
4909 SUNRISE HWY  
BOHEMIA, NY 11716  
Site 2 of 4 in cluster E

NY LTANKS  
NY Spills  
S104652210  
N/A

Relative:  
Higher

Actual:  
51 ft.

LTANKS:

Site ID: 465364  
Spill Number/Closed Date: 1202591 / 2012-10-19  
Spill Date: 2012-06-15  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station or other PBS Facility  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: False  
SWIS: 5228  
Investigator: hmcirrit  
Referred To: Not reported  
Reported to Dept: 2012-06-15  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 2012-06-15  
Spill Record Last Update: 2012-11-29  
Spiller Name: AARON  
Spiller Company: CUMBERLAND FARMS  
Spiller Address: 4909 SUNRISE HIGHWAY  
Spiller City,St,Zip: BOHEMIA, NY  
Spiller County: 999  
Spiller Contact: AARON  
Spiller Phone: (508) 270-4446  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 298857  
DEC Memo: "OUTWALL OF TANK 06/15/12 1240 Hrs: Checked database- there does not appear to be any active spills here. DR 06/15/12 1245 Hrs: Left message for Cumberland. DR 06/15/12 1250 Hrs (A): Aaron called- THIS WAS AN ANNUAL, ROUTINE TEST OF AN 8,000GAL TANK BY TANKNOLOGY. He was not certain whether any other tanks are being tested. 06/15/12 1250 Hrs (B): Upon removing the interstitial leak detection probes so they could be inspected they were noticed to be damp with gasoline. 06/15/12 1250 Hrs (C): TMC ENVIRONMENTAL is removing the product from the interstitial space at this time. 06/15/12 1250 Hrs (D): TYREE is on site to repair and reinstall the probes. If they go into alarm mode additional actions will be taken. DR 6/19/12: 10:45 T/C to Aaron @ Cumberland Farms. Tank did pass yesterdays interstitial test but it was not an official tank test. He will put a report together which will include the passing test result from an official tank test. He thinks the product which could have been water got into the



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Remarks: interstitial space through a loose bung."  
"gasoline found in outerwall of tank during testing"

**Material:**

Site ID: 465364  
Operable Unit ID: 1215386  
Operable Unit: 01  
Material ID: 2213512  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported  
Units: Not reported  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Site ID: 465364  
Spill Tank Test: 2494031  
Tank Number: UNKNOWN  
Tank Size: 0  
Test Method: 01  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: DJFARRAR  
Last Modified: Not reported  
Test Method: Petro-Tite/Petro Comp

**SPILLS:**

Facility ID: 1204916  
Facility Type: ER  
DER Facility ID: 350165  
Site ID: 467822  
DEC Region: 1  
Spill Date: 2012-08-15  
Spill Number/Closed Date: 1204916 / 2013-02-08  
Spill Cause: Other  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2012-08-15  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Remediation Phase: 0  
Date Entered In Computer: 2012-08-15  
Spill Record Last Update: 2013-02-20  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS  
Spiller Address: Not reported  
Spiller City,St,Zip: NN  
Spiller Company: 999  
Contact Name: MELISSA GLIDDEN  
Contact Phone: (508) 270-4449  
DEC Memo: "\*\*\*\*SEVERE THUNDERSTORM EARLIER THIS DATE\*\*\* DR 08/15/12 1455 Hrs:

Left message for Glidden- please confirm this involved water, with possibly some gas, in the sump(s) of the tanks. DR"

Remarks: "Tyree on rte for removal"

**Material:**

Site ID: 467822  
Operable Unit ID: 1217763  
Operable Unit: 01  
Material ID: 2235440  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported  
Units: Not reported  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: Not reported  
Site ID: 467822  
Operable Unit ID: 1217763  
Operable Unit: 01  
Material ID: 2216067  
Material Code: 9999  
Material Name: other - liquid in sump  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: Not reported  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 0913512  
Facility Type: ER  
DER Facility ID: 323805  
Site ID: 426460  
DEC Region: 1  
Spill Date: 2010-03-23  
Spill Number/Closed Date: 0913512 / 2010-08-17  
Spill Cause: Other  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2010-03-23  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2010-03-23  
Spill Record Last Update: 2010-10-13  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS # 70209  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller Company: 999  
Contact Name: MELISSA GLIDDEN  
Contact Phone: (508) 270-4494  
DEC Memo: "\*\*\*\*HEAVY RAIN OVERNIGHT\*\*\* DR"  
Remarks: "WATER IN THE SUMP PUMP OUT WILL BE DONE BY PHOENIX."

**Material:**

Site ID: 426460  
Operable Unit ID: 1182141  
Operable Unit: 01  
Material ID: 2176297  
Material Code: 9999  
Material Name: other - WATER  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 0904734  
Facility Type: ER  
DER Facility ID: 350165  
Site ID: 416940  
DEC Region: 1  
Spill Date: 2009-07-23  
Spill Number/Closed Date: 0904734 / 2010-03-22  
Spill Cause: Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Reported to Dept: 2009-07-23  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2009-07-23  
Spill Record Last Update: 2010-04-29  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS # 70209  
Spiller Address: 4909 SUNRISE HWY  
Spiller City,St,Zip: BOHEMIA, NY  
Spiller Company: 999  
Contact Name: MELISSA GLIDDEN  
Contact Phone: (508) 270-4494  
DEC Memo: "\*\*\*\*HEAVY RAIN 21-22JUL09\*\*\* DR"  
Remarks: "WATER IN THE SUMP PUMP OUT WILL BE DONE BY PHOENIX."

**Material:**

Site ID: 416940  
Operable Unit ID: 1173199  
Operable Unit: 01  
Material ID: 2165093  
Material Code: 9999  
Material Name: other - WATER  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 0902645  
Facility Type: ER  
DER Facility ID: 298857  
Site ID: 414702  
DEC Region: 1  
Spill Date: 2009-06-04  
Spill Number/Closed Date: 0902645 / 2009-07-17  
Spill Cause: Other  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.  
SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2009-06-04  
CID: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2009-06-04  
Spill Record Last Update: 2009-07-20  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS  
Spiller Address: Not reported  
Spiller City,St,Zip: NN  
Spiller Company: 999  
Contact Name: CALLER  
Contact Phone: Not reported  
DEC Memo: ""  
Remarks: "Water in the sumps."

**Material:**

Site ID: 414702  
Operable Unit ID: 1171081  
Operable Unit: 01  
Material ID: 2162869  
Material Code: 0060A  
Material Name: wastewater  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 0811344  
Facility Type: ER  
DER Facility ID: 298857  
Site ID: 408919  
DEC Region: 1  
Spill Date: 2009-01-14  
Spill Number/Closed Date: 0811344 / 2009-02-04  
Spill Cause: Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2009-01-14  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2009-01-14  
Spill Record Last Update: 2009-04-01  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS # 70209  
Spiller Address: 4909 SUNRISE HWY  
Spiller City,St,Zip: BOHEMIA, NY  
Spiller Company: 999  
Contact Name: MELISSA GLIDDEN  
Contact Phone: (781) 828-4900 3412  
DEC Memo: ""  
Remarks: "WATER IN THE SUMP PUMP OUT WILL BE DONE BY PHOENIX ENVIRONMETNAL."

**Material:**

Site ID: 408919  
Operable Unit ID: 1165425  
Operable Unit: 01  
Material ID: 2156832  
Material Code: 9999  
Material Name: other - WATER  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 0810476  
Facility Type: ER  
DER Facility ID: 298857  
Site ID: 407997  
DEC Region: 1  
Spill Date: 2008-12-17  
Spill Number/Closed Date: 0810476 / 2009-01-22  
Spill Cause: Housekeeping  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2008-12-17  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2008-12-17  
Spill Record Last Update: 2009-04-01  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS  
Spiller Address: 4909 SUNRISE HGWY  
Spiller City,St,Zip: BOHEMIA, NY  
Spiller Company: 999  
Contact Name: MELISSA GLIDDEN  
Contact Phone: Not reported  
DEC Memo: ""  
Remarks: "Caller states there is water in the spill buckets. Phoenix environmental is enroute for clean up."

**Material:**

Site ID: 407997  
Operable Unit ID: 1164529  
Operable Unit: 01  
Material ID: 2155908  
Material Code: 0060A  
Material Name: wastewater  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: Not reported  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 0805016  
Facility Type: ER  
DER Facility ID: 323805  
Site ID: 402044  
DEC Region: 1  
Spill Date: 2008-07-31  
Spill Number/Closed Date: 0805016 / 2008-07-31  
Spill Cause: Unknown  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2008-07-31  
CID: 406  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

UST Trust: Not reported  
Remediation Phase: 0  
Date Entered In Computer: 2008-08-01  
Spill Record Last Update: 2009-04-01  
Spiller Name: MELISSA GLIDEN  
Spiller Company: CUMBERLAND FARMS #70209  
Spiller Address: 4909 SUNRISE HWY  
Spiller City,St,Zip: BOHEMIA, NY 001  
Spiller Company: 001  
Contact Name: MELISSA GLIDEN  
Contact Phone: (800) 225-9702 3412  
DEC Memo: ""  
Remarks: "PBS No: 5-0059 -PBS No. not found in UIS, may be invalid. Found water in the sump. Phoenix Environmental will be pumping it out."

**Material:**

Site ID: 402044  
Operable Unit ID: 1158815  
Operable Unit: 01  
Material ID: 2149902  
Material Code: 0064A  
Material Name: unknown material  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 0804031  
Facility Type: ER  
DER Facility ID: 350165  
Site ID: 400865  
DEC Region: 1  
Spill Date: 2008-07-08  
Spill Number/Closed Date: 0804031 / 2008-08-07  
Spill Cause: Other  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2008-07-08  
CID: 444  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Remediation Phase: 0  
Date Entered In Computer: 2008-07-08  
Spill Record Last Update: 2009-04-01  
Spiller Name: MELLISSA GLIDDEN  
Spiller Company: CUMBERLAND  
Spiller Address: 4909 SUNRISE HWY  
Spiller City,St,Zip: BOHEMIA, NY  
Spiller Company: 001  
Contact Name: MELLISSA GLIDDEN  
Contact Phone: (800) 225-9702 3412  
DEC Memo: ""  
Remarks: "PHOENIX TO PUMP OUT WATER"

**Material:**

Site ID: 400865  
Operable Unit ID: 1157678  
Operable Unit: 01  
Material ID: 2148707  
Material Code: 0064A  
Material Name: unknown material  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 0712416  
Facility Type: ER  
DER Facility ID: 323805  
Site ID: 394025  
DEC Region: 1  
Spill Date: 2008-02-25  
Spill Number/Closed Date: 0712416 / 2008-04-15  
Spill Cause: Other  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2008-02-25  
CID: 408  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: Not reported  
Remediation Phase: 0  
Date Entered In Computer: 2008-02-25



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Spill Record Last Update: 2009-04-11  
Spiller Name: MELLISSA GLIDDEN  
Spiller Company: CUMBERLAND #70209  
Spiller Address: 4909 SUNRISE HWY  
Spiller City,St,Zip: BOHEMIA, NY 11716  
Spiller Company: 001  
Contact Name: MELLISSA GLIDDEN  
Contact Phone: (800) 225-9702 3412  
DEC Memo: ""  
Remarks: "WATER IN SUMP; WEATHER RELATED; TYREE WILL HANDLE CLEAN UP;"

**Material:**

Site ID: 394025  
Operable Unit ID: 1150972  
Operable Unit: 01  
Material ID: 2141626  
Material Code: 0064A  
Material Name: unknown material  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 0609728  
Facility Type: ER  
DER Facility ID: 323805  
Site ID: 374026  
DEC Region: 1  
Spill Date: 2006-11-26  
Spill Number/Closed Date: 0609728 / 2006-11-27  
Spill Cause: Human Error  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Unable/unwilling Responsible Party. Corrective action taken. (ISR)  
SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2006-11-26  
CID: 76  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2006-11-27  
Spill Record Last Update: 2008-10-16  
Spiller Name: Not reported  
Spiller Company: UNKNOWN CUSTOMER



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Spiller Address: Not reported  
Spiller City,St,Zip: NN  
Spiller Company: 999  
Contact Name: HARCHIAN  
Contact Phone: (631) 589-0909  
DEC Memo: "11/27/06 11:30 TELECON WITH LORRAINE FROM CUMBERLAND FARMS, APPROX 5 GALS OF GASOLINE SPILLED ONTO CONCRETE PAD. NO STORM DRAINS, DRYWELLS AND PRIVATE WELLS AFFECTED. ATTENDANT APPLIED SPEEDI DRI TO ABSORB MATERIALS. AREA WAS SWEEPED AND ALL IMPACTED SPEEDI DRI WAS REMOVED FROM SITE, THE NOZZLE HAS BEEN FIXED BY TYREE. NO ADDITIONAL ACTIONS REQUIRED BY CUMBERLAND FARMS NO RESPONSE"  
Remarks: "CALLER REPORTS SPILL DUE TO CUSTOMER DEFEATING THE SAFETY MECHANISM ON GAS SUPPLY NOZZLE BY PLACING GAS CAP INTO NOZZLE HANDLE. SPILL CONTAINED TO CONCRETE PAD. SPILL WAS CLEANED UP USING SPEEDY DRY."

Material:  
Site ID: 374026  
Operable Unit ID: 1131711  
Operable Unit: 01  
Material ID: 2121424  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 5.00  
Units: Gallons  
Recovered: 5.00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

[Click this hyperlink](#) while viewing on your computer to access additional NY\_SPILL: detail in the EDR Site Report.

**E18  
NNW  
< 1/8  
0.098 mi.  
515 ft.**

**BOHEMIA DEVELOPMENT CORP  
4909 SUNRISE HWY  
BOHEMIA, NY 11716**

**EDR Hist Auto 1021466391  
N/A**

**Site 3 of 4 in cluster E**

**Relative:  
Higher**

EDR Hist Auto

**Actual:  
51 ft.**

Year:	Name:	Type:
1982	ED MIR SERVICE STATION	Gasoline Service Stations
1983	ED MIR SERVICE STATION	Gasoline Service Stations
1985	ED MIR SERVICE STATION	Gasoline Service Stations
1986	ED MIR SERVICE STATION	Gasoline Service Stations
1987	ED MIR SERVICE STATION	Gasoline Service Stations
1988	ED MIR SERVICE STATION	Gasoline Service Stations
1989	ED MIR SERVICE STATION	Gasoline Service Stations
1990	ED MIR SERVICE STATION	Gasoline Service Stations
1991	ED MIR SERVICE STATION	Gasoline Service Stations
1992	ED MIR SERVICE STATION	Gasoline Service Stations
1993	ED MIR SERVICE STATION	Gasoline Service Stations
1994	ED MIR SERVICE STATION	Gasoline Service Stations
1995	ED MIR SERVICE STATION	Gasoline Service Stations



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA DEVELOPMENT CORP (Continued)**

**1021466391**

2002	EDMIR SERVICE STATION	Gasoline Service Stations
2002	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2003	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2004	KINGS COMPLETE AUTO SERVICE	General Automotive Repair Shops
2004	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2005	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2005	KINGS COMPLETE AUTO SERVICE	General Automotive Repair Shops
2006	KINGS COMPLETE AUTO SERVICE	General Automotive Repair Shops
2006	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2007	KINGS COMPLETE AUTO SERVICE	General Automotive Repair Shops
2007	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2008	NICOS WAY AUTOMOTIVE	Automotive Repair Shops, NEC
2008	KINGS COMPLETE AUTO SERVICE	General Automotive Repair Shops
2008	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2009	NICOS WAY AUTOMOTIVE	Automotive Repair Shops, NEC
2009	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2010	NICOS WAY AUTOMOTIVE	Automotive Repair Shops, NEC
2010	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2011	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2011	NICOS WAY AUTOMOTIVE	Automotive Repair Shops, NEC
2012	NICOS WAY AUTOMOTIVE	Automotive Repair Shops, NEC
2012	GULF GAS	Gasoline Service Stations, NEC
2012	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2013	GULF GAS	Gasoline Service Stations, NEC
2013	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2014	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2014	GULF GAS	Gasoline Service Stations, NEC
2014	CONCEPT AUTOMOTIVE	Automotive Repair Shops, NEC

**E19**  
**NNW**  
**< 1/8**  
**0.098 mi.**  
**515 ft.**

**EXXON**  
**4909 SUNRISE HIGHWAY/BOHEMIA PKWY**  
**BOHEMIA, NY**

**NY Spills** **S102097081**  
**N/A**

**Site 4 of 4 in cluster E**

**Relative:**  
**Higher**

**Actual:**  
**51 ft.**

**SPILLS:**

Facility ID:	9712676
Facility Type:	ER
DER Facility ID:	275675
Site ID:	248572
DEC Region:	1
Spill Date:	1998-02-12
Spill Number/Closed Date:	9712676 / 1998-09-23
Spill Cause:	Deliberate
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	5200
Investigator:	BMFORD
Referred To:	Not reported
Reported to Dept:	1998-02-12
CID:	999
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON (Continued)**

**S102097081**

UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1998-02-12  
Spill Record Last Update: 2003-08-29  
Spiller Name: Not reported  
Spiller Company: TRI VENTURE CONST CO  
Spiller Address: SUNRISE HIGHWAY  
Spiller City,St,Zip: BOHEMIA, NY  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
FORD SEE ALSO 97-12382, NO ADDITIONAL ACTIONS NECESSARY, DISPOSAL  
RECPTS REC'VD"

Remarks: "caller reports a chronic problem with the company dumping drums &  
oil in the yard.ground is reportedly covered with oil."

**Material:**

Site ID: 248572  
Operable Unit ID: 1058891  
Operable Unit: 01  
Material ID: 327270  
Material Code: 0015  
Material Name: motor oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported  
Site ID: 248572  
Operable Unit ID: 1058891  
Operable Unit: 01  
Material ID: 327269  
Material Code: 0010  
Material Name: hydraulic oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 9005927  
Facility Type: ER  
DER Facility ID: 365503  
Site ID: 248558  
DEC Region: 1  
Spill Date: 1990-08-29  
Spill Number/Closed Date: 9005927 / 1990-09-14  
Spill Cause: Housekeeping  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON (Continued)**

**S102097081**

Willing Responsible Party. Corrective action taken.  
SWIS: 5228  
Investigator: LUCE  
Referred To: Not reported  
Reported to Dept: 1990-08-29  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Affected Persons  
Cleanup Ceased: 1990-09-14  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1990-08-31  
Spill Record Last Update: 2009-07-13  
Spiller Name: MIKE OLAFSSON  
Spiller Company: EXXON  
Spiller Address: Not reported  
Spiller City,St,Zip: BOHEMIA, NY  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "TYREE WILL DO CLEANUP TOMORROW AM, REQUEST DEC INSPECTION, DRYWELL IS FED BY FLOOR DRAINS FROM WORKSHOP, M MIRZA SAID EXXON MIGHT HAVE TO REMOVE SOIL IN ADDITION TO CONT WATER, WILL ALSO HAVE SHUT DOWN TRAPS LEADING INTO DRYWELL CLEANUP SATISFACTORY"  
Remarks: "DRYWELL OVERFLOWED, OIL DEPOSITED IN BOTTOM SPILLED OUT. TYREE CLEANING UP."

Material:  
Site ID: 248558  
Operable Unit ID: 943463  
Operable Unit: 01  
Material ID: 433405  
Material Code: 0022  
Material Name: waste oil/used oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported  
Site ID: 248558  
Operable Unit ID: 943463  
Operable Unit: 01  
Material ID: 433406  
Material Code: 1887A  
Material Name: water purifying tablets  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: Not reported  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON (Continued)**

**S102097081**

Tank Test:

**20  
SW  
< 1/8  
0.099 mi.  
523 ft.**

**RESIDENCE  
220 TERRY ROAD  
SAYVILLE, NY**

**NY Spills S110489806  
N/A**

**Relative:  
Higher**

**Actual:  
43 ft.**

**SPILLS:**

Facility ID: 1005397  
Facility Type: ER  
DER Facility ID: 393694  
Site ID: 438712  
DEC Region: 1  
Spill Date: 2010-08-13  
Spill Number/Closed Date: 1005397 / 2010-08-13  
Spill Cause: Equipment Failure  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

**SWIS:**

Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2010-08-13  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2010-08-13  
Spill Record Last Update: 2010-12-24  
Spiller Name: FRANK NAGLIERI  
Spiller Company: LIPA/NATIONAL GRID  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller Company: 999  
Contact Name: FRANK NAGLIERI  
Contact Phone: (917) 578-0161  
DEC Memo: "As per Frank, less than one gal of transformer oil spilled onto  
roadway at the above location. -Oil is non-PCB as per quick test.  
-Waste Recycling responded and cleaned up the spill. -No waterways  
affected by the spill. No further action required. (WG)"

**Remarks:** "cleanup in progress"

**Material:**

Site ID: 438712  
Operable Unit ID: 1189362  
Operable Unit: 01  
Material ID: 2184317  
Material Code: 0020A  
Material Name: transformer oil  
Case No.: Not reported  
Material FA: Petroleum



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENCE (Continued)**

**S110489806**

Quantity: 1.00  
Units: Gallons  
Recovered: Not reported  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

**F21**  
**NNE**  
**< 1/8**  
**0.103 mi.**  
**545 ft.**

**UNK**  
**SUNRISE HWY & LAKELAND AV**  
**SAYVILLE, NY**

**NY Spills S104786766**  
**N/A**

**Site 1 of 7 in cluster F**

**Relative:**  
**Lower**

**Actual:**  
**38 ft.**

**SPILLS:**

Facility ID: 9506171  
Facility Type: ER  
DER Facility ID: 277808  
Site ID: 93090  
DEC Region: 1  
Spill Date: 1995-08-18  
Spill Number/Closed Date: 9506171 / 1995-08-23  
Spill Cause: Traffic Accident  
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

**SWIS:** 5200  
Investigator: SCHULZ  
Referred To: Not reported  
Reported to Dept: 1995-08-18  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: DEC  
Cleanup Ceased: 1995-08-23  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1995-08-21  
Spill Record Last Update: 1995-08-24  
Spiller Name: Not reported  
Spiller Company: UNK  
Spiller Address: Not reported  
Spiller City,St,Zip: \*\*\*UPDATE\*\*\*, ZZ  
Spiller Company: 999  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: ""  
Remarks: "CASES OF OIL FELL OFF A TRUCK AND SPLIT OPEN, SC HWY SANDED AREA AND SWEPT"

**Material:**

Site ID: 93090  
Operable Unit ID: 1020984  
Operable Unit: 01



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNK (Continued)**

**S104786766**

Material ID: 364148  
Material Code: 0022  
Material Name: waste oil/used oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 10.00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

**G22  
SW  
< 1/8  
0.109 mi.  
573 ft.**

**KOSTER KEUNEN INC  
90 BOURNE BLVD  
SAYVILLE, NY 11782  
Site 1 of 3 in cluster G**

**NY Spills 1000400659  
RCRA NonGen / NLR NYD002048593  
FINDS  
ECHO  
NY MANIFEST  
NY SPDES**

**Relative:  
Higher**

**SPILLS:**

**Actual:  
44 ft.**

Facility ID: 8704744  
Facility Type: ER  
DER Facility ID: 102091  
Site ID: 117339  
DEC Region: 1  
Spill Date: 1987-09-08  
Spill Number/Closed Date: 8704744 / 1987-09-10  
Spill Cause: Equipment Failure  
Spill Class: Not reported  
SWIS: 5222  
Investigator: KDGOERTZ  
Referred To: Not reported  
Reported to Dept: 1987-09-08  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: 1987-09-10  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1987-09-14  
Spill Record Last Update: 2005-07-05  
Spiller Name: Not reported  
Spiller Company: EAGLE FUEL TRANSPORT  
Spiller Address: 108 WATERBURY STREET  
Spiller City,St,Zip: BROOKLYN, NY 11206  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
GOERTZ FD // : SPILLER IN PROCESS OF CLEANING UP SPILL. FILE HAS  
BEEN DESTROYED ACCORDING TO STATE ARCHIVE AND RECORD ADMINISTRATOR



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

Remarks: RETENTION/DISPOSAL PROCEDURES "  
"DELIVERY HOSE DISCONNECTED FROM FILL PIPE DURING DELIVERY. APPROX 50  
GALS SPRAYED ON BUILDING & CONCRETE."

Material:

Site ID: 117339  
Operable Unit ID: 911194  
Operable Unit: 01  
Material ID: 467363  
Material Code: 0003A  
Material Name: #6 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 50.00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

RCRA NonGen / NLR:

Date form received by agency: 01/01/2007  
Facility name: KOSTER KEUNEN INC  
Facility address: 90 BOURNE BLVD  
SAYVILLE, NY 117823307  
EPA ID: NYD002048593  
Mailing address: PO BOX 383  
SAYVILLE, NY 11782  
Contact: Not reported  
Contact address: PO BOX 383  
SAYVILLE, NY 11782  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: JOHN KOSTER  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported  
  
Owner/operator name: JOHN KOSTER  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 01/01/2006  
Site name: KOSTER KEUNEN INC  
Classification: Not a generator, verified

Date form received by agency: 07/08/1999  
Site name: KOSTER KEUNEN INC  
Classification: Not a generator, verified

Date form received by agency: 05/22/1987  
Site name: KOSTER KEUNEN INC  
Classification: Small Quantity Generator

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: P041
- . Waste name: DIETHYL-P-NITROPHENYL PHOSPHATE (OR) PHOSPHORIC ACID, DIETHYL 4-NITROPHENYL ESTER
- . Waste code: P058
- . Waste name: ACETIC ACID, FLUORO-, SODIUM SALT (OR) FLUOROACETIC ACID, SODIUM SALT
- . Waste code: U002
- . Waste name: 2-PROPANONE (I) (OR) ACETONE (I)
- . Waste code: U019
- . Waste name: BENZENE (I,T)
- . Waste code: U044
- . Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-
- . Waste code: U220
- . Waste name: BENZENE, METHYL- (OR) TOLUENE

Violation Status: No violations found

**FINDS:**

Registry ID: 110004337307

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000400659  
Registry ID: 110004337307  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110004337307>



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

NY MANIFEST:

Country: USA  
EPA ID: NYD002048593  
Facility Status: Not reported  
Location Address 1: 90 BOURNE BLVD  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: SAYVILLE  
Location State: NY  
Location Zip: 11782  
Location Zip 4: Not reported

NY MANIFEST:

EPAID: NYD002048593  
Mailing Name: KOSTER KEUNEN  
Mailing Contact: KOSTER KEUNEN  
Mailing Address 1: 90 BOURNE BLVD  
Mailing Address 2: Not reported  
Mailing City: SAYVILLE  
Mailing State: NY  
Mailing Zip: 11782  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 5165890456

NY MANIFEST:

Document ID: NYB4943862  
Manifest Status: C  
seq: Not reported  
Year: 1994  
Trans1 State ID: XB4885  
Trans2 State ID: Not reported  
Generator Ship Date: 07/12/1994  
Trans1 Recv Date: 07/12/1994  
Trans2 Recv Date: / /  
TSD Site Recv Date: 07/13/1994  
Part A Recv Date: 07/28/1994  
Part B Recv Date: 07/21/1994  
Generator EPA ID: NYD002048593  
Trans1 EPA ID: NYD082785429  
Trans2 EPA ID: Not reported  
TSDF ID 1: NYD082785429  
TSDF ID 2: Not reported  
Manifest Tracking Number: Not reported  
Import Indicator: Not reported  
Export Indicator: Not reported  
Discr Quantity Indicator: Not reported  
Discr Type Indicator: Not reported  
Discr Residue Indicator: Not reported  
Discr Partial Reject Indicator: Not reported  
Discr Full Reject Indicator: Not reported  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: Not reported  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 00020  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 004  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 095

[Click this hyperlink](#) while viewing on your computer to access  
35 additional NY\_MANIFEST: record(s) in the EDR Site Report.

**SPDES:**

Permit Number: NY0075892  
State-Region: 01  
Expiration Date: 10/31/2013  
Current Major Minor Status: Minor  
Primary Facility SIC Code: 3999  
State Water Body Name: GW  
Limit Set Status Flag: Active  
Total Actual Average Flow(MGD): 0.009  
Total App Design Flow(MGD): Not reported  
UDF1: Not reported  
Lat/Long: 40.749583 / -73.103972  
DMR Cognizant Official: RICHARD B KOSTER, PRESIDENT  
UDF2: 001701  
UDF3: GA  
FIPS County Code: NY103

Non-Gov Permit Affiliation Type Desc: DMR Mailing Address  
Non-Gov Permit Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Permit Street Address: PARAMOLD MANUFACTURING LTD  
Non-Gov Permit Supplemental Location: 90 BOURNE BLVD  
Non-Gov Permit City: SAYVILLE  
Non-Gov Permit State Code: NY  
Non-Gov Permit Zip Code: 11782  
Non-Gov Facility Affiliation Type Desc: Mailing Address  
Non-Gov Facility Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Street Address: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Supplemental Location: 90 BOURNE BLVD  
Non-Gov Facility City: SAYVILLE  
Non-Gov Facility State Code: NY  
Non-Gov Facility Zip Code: 11782  
State Water Body: 02030202100

UDF2: 001701  
UDF3: GA  
FIPS County Code: NY103

Non-Gov Permit Affiliation Type Desc: DMR Mailing Address  
Non-Gov Permit Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Permit Street Address: PARAMOLD MANUFACTURING LTD



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

Non-Gov Permit Supplemental Location: 90 BOURNE BLVD  
Non-Gov Permit City: SAYVILLE  
Non-Gov Permit State Code: NY  
Non-Gov Permit Zip Code: 11782  
Non-Gov Facility Affiliation Type Desc: Owner  
Non-Gov Facility Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Street Address: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Supplemental Location: 90 BOURNE BLVD  
Non-Gov Facility City: SAYVILLE  
Non-Gov Facility State Code: NY  
Non-Gov Facility Zip Code: 11782  
State Water Body: 02030202100

UDF2: 001701  
UDF3: GA  
FIPS County Code: NY103

Non-Gov Permit Affiliation Type Desc: Permittee  
Non-Gov Permit Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Permit Street Address: 90 BOURNE BLVD  
Non-Gov Permit Supplemental Location: Not reported  
Non-Gov Permit City: SAYVILLE  
Non-Gov Permit State Code: NY  
Non-Gov Permit Zip Code: 11782  
Non-Gov Facility Affiliation Type Desc: Mailing Address  
Non-Gov Facility Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Street Address: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Supplemental Location: 90 BOURNE BLVD  
Non-Gov Facility City: SAYVILLE  
Non-Gov Facility State Code: NY  
Non-Gov Facility Zip Code: 11782  
State Water Body: 02030202100

UDF2: 001701  
UDF3: GA  
FIPS County Code: NY103

Non-Gov Permit Affiliation Type Desc: Permittee  
Non-Gov Permit Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Permit Street Address: 90 BOURNE BLVD  
Non-Gov Permit Supplemental Location: Not reported  
Non-Gov Permit City: SAYVILLE  
Non-Gov Permit State Code: NY  
Non-Gov Permit Zip Code: 11782  
Non-Gov Facility Affiliation Type Desc: Owner  
Non-Gov Facility Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Street Address: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Supplemental Location: 90 BOURNE BLVD  
Non-Gov Facility City: SAYVILLE  
Non-Gov Facility State Code: NY  
Non-Gov Facility Zip Code: 11782  
State Water Body: 02030202100



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**G23**  
**SW**  
**< 1/8**  
**0.109 mi.**  
**573 ft.**

**GAZZA**  
**123 TOLEDO ST**  
**FARMINGDALE, NY 11735**

**NY UST**  
**NY AST**

**U003842832**  
**N/A**

**Site 2 of 3 in cluster G**

**Relative:**  
**Higher**

SUFFOLK CO. UST:

**Actual:**  
**44 ft.**

Region: SUFFOLK  
Site Ref#: 01595  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

Facility Info:

Site Ref#: 01595  
Billing Contact: KOSTER KEUNEN WAXES LTD  
Billing Address: 90 BOURNE BLVD  
Billing Address: SAYVILLE  
Billing State: NY  
Billing Zip: 11782  
Storage Owner: KOSTER KEUNEN WAXES LTD  
Storage Owner Address: 90 BOURNE BLVD  
Storage Owner City: SAYVILLE  
Storage Owner State: NY  
Storage Owner Zip: 11782

Tank Info:

Facility ID: 01595  
Facility Reference #: Not reported  
Official Use: Not reported  
Township: Not reported  
Tax Map No: Not reported  
Region: SUFFOLK  
Permit to Operate: Not reported

Tank ID: 1  
Tank Key: Not reported  
Installed: Not reported  
Capacity: 10000 gallons  
Substance: #6 FUEL OIL  
Date Removed: Not reported  
Construction: STEEL/ IRON  
Dispenser: SUCTION  
Fill Type: Not reported  
Tank Location: UNDER - OUT  
Tank Status: REMOVED  
Total Capacity: 10000 gallons  
Date Permitted: Not reported  
Date Closed: 09/13/1996  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported  
Year Installed: Not reported  
Description of drop records: Not reported

Tank ID: 2  
Tank Key: Not reported  
Installed: Not reported  
Capacity: 10000 gallons  
Substance: #6 FUEL OIL  
Date Removed: Not reported  
Construction: STEEL/ IRON  
Dispenser: SUCTION  
Fill Type: Not reported  
Tank Location: UNDER - OUT  
Tabk Status: IN SERVICE  
Total Capacity: 10000 gallons  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported  
Year Installed: Not reported  
Description of drop records: Not reported

**AST\_SUFFOLK:**

Region: SUFFOLK  
Site Ref#: 10290  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

**Facility Info:**

Site Ref#: 10290  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: KOSTER KEUNEN WAXES LTD



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Storage Owner Address: 90 BOURNE BLVD  
Storage Owner City: SAYVILLE  
Storage Owner State: NY  
Storage Owner Zip: 11782

**Tank Info:**

Facility ID: 10290  
Facility Reference #: 01595  
Township: ISLIP  
Tax Map No: 0500  
Region: SUFFOLK

Tank ID: 10  
Tank Key: 29513  
Year Installed: Not reported  
Substance: ORGANIC SOLVENT  
Construction: STEEL  
Dispenser: OTHER  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000500  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: OTHER  
Date Removed: 010189

Tank ID: 11  
Tank Key: 29514  
Year Installed: Not reported  
Substance: ORGANIC SOLVENT  
Construction: STEEL  
Dispenser: OTHER  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: OTHER  
Date Removed: 010189

Tank ID: 12  
Tank Key: 29515  
Year Installed: Not reported  
Substance: ORGANIC SOLVENT  
Construction: STEEL  
Dispenser: OTHER  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: OTHER  
Date Removed: 010189

Tank ID: 5  
Tank Key: 29508  
Year Installed: 79  
Substance: ORGANIC SOLVENT  
Construction: Not reported  
Dispenser: SUCTION  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000500  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 010189

Tank ID: 6  
Tank Key: 29509  
Year Installed: 79  
Substance: ORGANIC SOLVENT  
Construction: Not reported  
Dispenser: SUCTION  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000500  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 010189

Tank ID: 7  
Tank Key: 29510  
Year Installed: 59  
Substance: ORGANIC SOLVENT  
Construction: STEEL  
Dispenser: SUCTION  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000800  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 010189

Tank ID: 8  
Tank Key: 29511  
Year Installed: 59  
Substance: ORGANIC SOLVENT  
Construction: STEEL  
Dispenser: SUCTION  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tabk Status: Not reported  
Total Capacity: 000000800  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 010189

Tank ID: 9  
Tank Key: 29512  
Year Installed: 59  
Substance: ORGANIC SOLVENT  
Construction: STEEL  
Dispenser: SUCTION  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tabk Status: Not reported  
Total Capacity: 000000500  
Date Permitted: Not reported  
Date Closed: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 010189

**G24**  
**SW**  
**< 1/8**  
**0.109 mi.**  
**573 ft.**

**KOSTER KEUNEN INC**  
**90 BOURNE BLVD**  
**SAYVILLE, NY 11782**  
**Site 3 of 3 in cluster G**

**NY UST** **U004219763**  
**N/A**

**Relative:**  
**Higher**

**SUFFOLK CO. UST:**

**Actual:**  
**44 ft.**

Region: SUFFOLK  
Site Ref#: 10290  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

**Facility Info:**

Site Ref#: 10290  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: KOSTER KEUNEN WAXES LTD  
Storage Owner Address: 90 BOURNE BLVD  
Storage Owner City: SAYVILLE  
Storage Owner State: NY  
Storage Owner Zip: 11782

**Tank Info:**

Facility ID: 10290  
Facility Reference #: 01595  
Official Use: Removed Tank. 96  
Township: ISLIP  
Tax Map No: 0500 304.00 002 010.000  
Region: SUFFOLK  
Permit to Operate: Not reported

Tank ID: 1  
Tank Key: 29504  
Installed: 60  
Capacity: 0000010000  
Substance: #6 Fuel Oil  
Date Removed: 091396



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**U004219763**

Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000010000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 091396  
Year Installed: 60  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 2  
Tank Key: 29505  
Installed: 71  
Capacity: 0000010000  
Substance: #6 Fuel Oil  
Date Removed: Not reported  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000010000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: Not reported  
Year Installed: 71  
Description of drop records: RECORDS AS OF 09/10/2013



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**U004219763**

Tank ID: 3  
Tank Key: 29506  
Installed: 59  
Capacity: 0000005000  
Substance: ORGANIC SOLVENT  
Date Removed: 010185  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000005000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010185  
Year Installed: 59  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 4  
Tank Key: 29507  
Installed: 59  
Capacity: 0000003000  
Substance: ORGANIC SOLVENT  
Date Removed: 010185  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000003000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**U004219763**

Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010185  
Year Installed: 59  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 13  
Tank Key: 29516  
Installed: Not reported  
Capacity: 0000006000  
Substance: ORGANIC SOLVENT  
Date Removed: Not reported  
Construction: Not reported  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000006000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: Not reported  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

**F25**  
**North**  
**< 1/8**  
**0.117 mi.**  
**619 ft.**

**UNKNOWN**  
**LAKELAND AVE/RTE 27 SVCE**  
**SAYVILLE, NY**  
**Site 2 of 7 in cluster F**

**NY Spills S106470087**  
**N/A**

**Relative:**  
**Lower**

**SPILLS:**

**Actual:**  
**36 ft.**

Facility ID: 0402922  
Facility Type: ER  
DER Facility ID: 253691  
Site ID: 314666  
DEC Region: 1  
Spill Date: 2004-06-16  
Spill Number/Closed Date: 0402922 / 2004-06-17  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 5228  
Investigator: UNASSIGNED



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNKNOWN (Continued)**

**S106470087**

Referred To: Not reported  
Reported to Dept: 2004-06-16  
CID: 71  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Police Department  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2004-06-16  
Spill Record Last Update: 2009-06-01  
Spiller Name: Not reported  
Spiller Company: UNKNOWN  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller Company: 999  
Contact Name: SUFFOLK CO POLICE  
Contact Phone: (631) 854-8500  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
NONE TELECON SCPDES FROM SCENE, SPILL QTY IS LESS THAN ONE QUART FROM  
AN UNK LEAKY VEHICLE, NO ASSISTANCE FROM DEC NEEDED"  
Remarks: "PATROL DISCOVERED SPILL AT INTERSECTION OF LAKELAND AV & RT 27  
SERVICE RD EASTBOUND. CLEAN-UP PENDING. EMERGENCY UNIT STANDING BY.  
CENTRAL COMPLAIN #04327912."

**Material:**

Site ID: 314666  
Operable Unit ID: 884730  
Operable Unit: 01  
Material ID: 490527  
Material Code: 0015  
Material Name: motor oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

**F26**  
**North**  
**< 1/8**  
**0.117 mi.**  
**619 ft.**  
**SAYVILLE BOWLING ALLEY**  
**SUNRISE HWY & LAKELAND AVENUE**  
**ISLIP, NY**  
**Site 3 of 7 in cluster F**

**NY Spills** **S106701250**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**36 ft.**  
**SPILLS:**  
Facility ID: 9012854  
Facility Type: ER  
DER Facility ID: 83478  
Site ID: 93089  
DEC Region: 1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAYVILLE BOWLING ALLEY (Continued)**

**S106701250**

Spill Date: 1991-03-15  
Spill Number/Closed Date: 9012854 / 1991-03-28  
Spill Cause: Traffic Accident  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Unable/unwilling Responsible Party. Corrective action taken. (ISR)  
SWIS: 5228  
Investigator: MIRZA  
Referred To: Not reported  
Reported to Dept: 1991-03-15  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: Local Agency  
Cleanup Ceased: 1991-03-28  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1991-03-19  
Spill Record Last Update: 2009-08-21  
Spiller Name: Not reported  
Spiller Company: AGGREKKO  
Spiller Address: Not reported  
Spiller City,St,Zip: \*\*\*UPDATE\*\*\*, ZZ  
Spiller Company: 999  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "STORM DRAIN AFFECTED, FOUND BY DEC DURING INVESTIGATION AND  
SUBSEQUENTLY CLEANED DURING CLEANUP, UNDER DEC SUPERVISION"  
Remarks: "MV ACCIDENT, SCPD ON SCENE.MAY HAVE APPLIED SPEEDI DRY. 50-70 GALS  
SPILLED.DIKED & CONTAINED ON ROAD.S.D AFFECTED (FOUND BY DEC DURING  
INVESTIGATION) AND SUBSEQUENTLY CLEANED DURING CLEANUP \*\*\*NOTE: MAY  
ALSO HAVE BEEN RECORDED AS 9012855; THIS IS THE NUMBER TO BE USED\*\*\*\*"  
Material:  
Site ID: 93089  
Operable Unit ID: 952767  
Operable Unit: 01  
Material ID: 429312  
Material Code: 0066A  
Material Name: unknown petroleum  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 75.00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**F27**  
**North**  
**< 1/8**  
**0.117 mi.**  
**619 ft.**  
**TRI VENTURE**  
**SUNRISE HWY/LAKELAND AVE**  
**SAYVILLE, NY**  
**Site 4 of 7 in cluster F**

**NY Spills** **S102961557**  
**N/A**

**Relative:**  
**Lower**

**Actual:**  
**36 ft.**

**SPILLS:**

Facility ID: 9712382  
Facility Type: ER  
DER Facility ID: 196092  
Site ID: 238082  
DEC Region: 1  
Spill Date: 1998-02-05  
Spill Number/Closed Date: 9712382 / 1998-07-06  
Spill Cause: Deliberate  
Spill Class: No spill occurred. No DEC Response. No corrective action required.  
SWIS: 5200  
Investigator: BMFORD  
Referred To: Not reported  
Reported to Dept: 1998-02-05  
CID: 266  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Federal Government  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1998-02-05  
Spill Record Last Update: 1998-07-07  
Spiller Name: Not reported  
Spiller Company: TRI VENTURE  
Spiller Address: SUNRISE HWY/LAKELAND AVE  
Spiller City,St,Zip: SAYVILLE, NY  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was FORD SEE ALSO 97-12676"  
Remarks: "WIFE OF AN EMPLOYEE STATES THAT SPILLER IS DUMPING WASTE OIL AND ANTIFREEZE FROM 55 GALLON DRUMS."

**Material:**

Site ID: 238082  
Operable Unit ID: 1055146  
Operable Unit: 01  
Material ID: 326990  
Material Code: 0022  
Material Name: waste oil/used oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported  
Site ID: 238082  
Operable Unit ID: 1055146



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TRI VENTURE (Continued)**

**S102961557**

Operable Unit: 01  
Material ID: 326991  
Material Code: 0043A  
Material Name: antifreeze  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

**F28**  
**North**  
**< 1/8**  
**0.117 mi.**  
**619 ft.**

**UNK**  
**11TH ST/SUNRISE SOUTH SVC**  
**BOHEMIA, NY**  
**Site 5 of 7 in cluster F**

**NY Spills S104952314**  
**N/A**

**Relative:**  
**Lower**

**Actual:**  
**36 ft.**

**SPILLS:**

Facility ID: 0025378  
Facility Type: ER  
DER Facility ID: 75908  
Site ID: 82238  
DEC Region: 1  
Spill Date: 2001-01-23  
Spill Number/Closed Date: 0025378 / 2001-01-23  
Spill Cause: Other  
Spill Class: No spill occurred. No DEC Response. No corrective action required.  
SWIS: 5228  
Investigator: UNASSIGNED  
Referred To: Not reported  
Reported to Dept: 2001-01-23  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Passenger Vehicle  
Spill Notifier: Local Agency  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2001-01-23  
Spill Record Last Update: 2012-06-29  
Spiller Name: Not reported  
Spiller Company: UNK  
Spiller Address: Not reported  
Spiller City,St,Zip: \*\*\*UPDATE\*\*\*, ZZ  
Spiller Company: 999  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
NONE 1/23/01 14:21 TELECON WITH STEVE OF DOT, KNOWS NO DETAILS, WILL  
CALL BACK WHEN CREW RADIOS IN, 14:41 TELECON WITH STEVE FROM DOT



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNK (Continued)

S104952314

Remarks: DISPATCH, FIELD CREW REPORTED NO VEHICLE BELIEVES TO BE CRACK CALL (CE)"  
"DOT HIGHWAY CREW FOUND MOTOR VEHICLE ABANDONED NEXT TO A SUMP (SUMP 47?). IS ACTIVELY LEAKING AUTOMOTIVE FLUIDS (UNCERTAIN EXACTLY WHAT, BUT PROBABLY NOT GAS) INTO SUMP."

Material:

Site ID: 82238  
Operable Unit ID: 836498  
Operable Unit: 01  
Material ID: 540805  
Material Code: 0005A  
Material Name: auto waste fluids  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

F29  
North  
< 1/8  
0.117 mi.  
619 ft.

UNKNOWN  
SUNRISE HWY & LAKE LAND  
BOHEMIA, NY

NY Spills S102095878  
N/A

Site 6 of 7 in cluster F

Relative:  
Lower

SPILLS:

Facility ID: 8903887  
Facility Type: ER  
DER Facility ID: 77170  
Site ID: 83882  
DEC Region: 1  
Spill Date: 1989-07-18  
Spill Number/Closed Date: 8903887 / 1990-08-14  
Spill Cause: Traffic Accident  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)

SWIS: 5228  
Investigator: NJACAMPO  
Referred To: Not reported  
Reported to Dept: 1989-07-18  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: Police Department  
Cleanup Ceased: 1990-08-14  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1989-07-21  
Spill Record Last Update: 2009-04-24  
Spiller Name: Not reported

Actual:  
36 ft.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNKNOWN (Continued)**

**S102095878**

Spiller Company: RGM  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
ACAMPORA "  
Remarks: "P.D & F.D ON SCENE. WAITING FOR DEC RESPONSE NA RESPOND ~2015"

Material:  
Site ID: 83882  
Operable Unit ID: 929295  
Operable Unit: 01  
Material ID: 447958  
Material Code: 0001A  
Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 50.00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

**F30**  
**North**  
**< 1/8**  
**0.117 mi.**  
**619 ft.**

**UNKNOWN**  
**LAKELAND AVE/SUNRISE HWY**  
**WEST SAYVILLE, NY**

**NY Spills** **S106468612**  
**N/A**

**Site 7 of 7 in cluster F**

**Relative:**  
**Lower**

**SPILLS:**

Facility ID: 0401075  
Facility Type: ER  
DER Facility ID: 89670  
Site ID: 101173  
DEC Region: 1  
Spill Date: 2004-04-30  
Spill Number/Closed Date: 0401075 / 2004-10-06  
Spill Cause: Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Unable/unwilling Responsible Party. Corrective action taken. (ISR)

**Actual:**  
**36 ft.**

SWIS: 5228  
Investigator: CAGAITES  
Referred To: Not reported  
Reported to Dept: 2004-04-30  
CID: 406  
Water Affected: Not reported  
Spill Source: Tank Truck  
Spill Notifier: Fire Department  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNKNOWN (Continued)**

**S106468612**

Remediation Phase: 0  
Date Entered In Computer: 2004-04-30  
Spill Record Last Update: 2015-11-16  
Spiller Name: SHAMUS  
Spiller Company: EMERALI ISLE PAVING  
Spiller Address: 36 EAST MADISON STREET  
Spiller City,St,Zip: EAST ISLIP, NY 11730-  
Spiller Company: 001  
Contact Name: MIKE POSTAL  
Contact Phone: (631) 987-5285  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
GAITES 4/30 TELECON TO MIKE POSTAL, SAYVILLE FD, DIESEL MACK DUMP  
TRUCK LOST BRAKES AND HIT A FENCE. FENCE BROKE CROSS OVER LINE  
BETWEEN TANKS, TANKS ARE OK, LINE LEAK STOPPED BY FD, APPROX 20  
GALLONS RELEASE,SLIGHT IMPACT TO STORM DRAIN, RP REP ENROUTE TO THE  
SITE SPOKE TO MIKE WASER ISLIP HAZMAT ON SITE,WILL ADVISE RP TO  
CLEANUP SITE, SPILL TO GRASS AREA IMPACTING GRASS AND SOIL, PADS AND  
BOOM DEPLOYED BY FD, 1ST STORM WEST OF LAKELAND ON NORTHSIDE OF SOUTH  
SERVICE ROAD CG ENROUTE"

Remarks: "Hazmat from Islip is on scene with assistant fire chief. Material is  
all over the road minimal material went into the storm drain. Would  
like DEC on scene. Comm veh. is source. Contact fire chief ASAP."

Material:  
Site ID: 101173  
Operable Unit ID: 885238  
Operable Unit: 01  
Material ID: 559909  
Material Code: 0008  
Material Name: diesel  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 20.00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

31  
WNW  
< 1/8  
0.124 mi.  
657 ft.

**RESIDENCE**  
**78 ISLAND BLVD**  
**SAYVILLE, NY 11782**

**NY Spills S109582769**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**44 ft.**

SPILLS:  
Facility ID: 0901692  
Facility Type: ER  
DER Facility ID: 362822  
Site ID: 413701  
DEC Region: 1  
Spill Date: 2009-05-11  
Spill Number/Closed Date: 0901692 / 2009-05-12  
Spill Cause: Unknown  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENCE (Continued)**

**S109582769**

SWIS: 5228  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2009-05-11  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: Affected Persons  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: Not reported  
Remediation Phase: 0  
Date Entered In Computer: 2009-05-11  
Spill Record Last Update: 2010-01-25  
Spiller Name: LISA & FRANK  
Spiller Company: Not reported  
Spiller Address: 82 ISLAND BLVD  
Spiller City,St,Zip: SAYVILLE, NY  
Spiller Company: 999  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "05-12-09 @ 9:30 AM T/C with caller. Per Ms. Stachowic, impacted area has been cleaned up by her neighbor. All contaminated materials were removed and properly disposed of. Caller is scheduled to backfill the excavation at a later date. No Further action required."

Remarks: "Caller states her neighbor is dumping waste automotive fluid over adjoining fence between properties into her flower garden. Caller further states affected area smells like oil and needs to be cleaned up. Caller has not spoken with her neighbor regarding her suspicions and does not want to approach them directly. As per callers request - she was forward to ECO desk following completion of new spill notification process."

Material:  
Site ID: 413701  
Operable Unit ID: 1170113  
Operable Unit: 01  
Material ID: 2161828  
Material Code: 0005A  
Material Name: auto waste fluids  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

H32  
NW  
1/8-1/4  
0.143 mi.  
756 ft.

**GENERATION KIA**  
**4825 SUNRISE HWY**  
**BOHEMIA, NY 11716**

**Site 1 of 3 in cluster H**

**NY AST**

**U003843398**  
**N/A**

**Relative:**  
**Higher**

AST\_SUFFOLK:

Region: SUFFOLK  
Site Ref#: 06962  
Status: ACTIVE  
Site Type: PBS  
Operating Permit Expires: 03/31/2020  
Owner/Storage Information: AVAILABLE

**Actual:**  
**49 ft.**

Facility Info:

Site Ref#: 06962  
Billing Contact: GENERATION KIA  
Billing Address: 4825 SUNRISE HWY  
Billing Address: BOHEMIA  
Billing State: NY  
Billing Zip: 11716  
Storage Owner: GENERATION KIA  
Storage Owner Address: 4825 SUNRISE HWY  
Storage Owner City: BOHEMIA  
Storage Owner State: NY  
Storage Owner Zip: 11716

Tank Info:

Facility ID: 06962  
Facility Reference #: Not reported  
Township: Not reported  
Tax Map No: Not reported  
Region: SUFFOLK

Tank ID: 1  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: WASTE OIL  
Construction: STEEL/ IRON  
Dispenser: SUCTION  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - OUT  
Tank Status: IN SERVICE  
Total Capacity: 275 gallons  
Date Permitted: 06/01/1990  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERATION KIA (Continued)**

**U003843398**

Fill:	Not reported
Date Removed:	Not reported
Tank ID:	2
Tank Key:	Not reported
Year Installed:	Not reported
Substance:	WASTE OIL
Construction:	STEEL/ IRON
Dispenser:	SUCTION
Official Use:	Not reported
Permit to Operate:	Not reported
Tank Location:	ABOVE - OUT
Tabk Status:	IN SERVICE
Total Capacity:	275 gallons
Date Permitted:	06/01/1990
Date Closed:	Not reported
Internal Protection:	NONE
Secondary Containment:	NONE
Extrenal Protection:	Not reported
Leak Detection:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	Not reported
Date Removed:	Not reported
Tank ID:	3
Tank Key:	Not reported
Year Installed:	Not reported
Substance:	MOTOR OIL
Construction:	STEEL/ IRON
Dispenser:	OTHER
Official Use:	Not reported
Permit to Operate:	Not reported
Tank Location:	ABOVE - OUT
Tabk Status:	IN SERVICE
Total Capacity:	275 gallons
Date Permitted:	06/01/1990
Date Closed:	Not reported
Internal Protection:	NONE
Secondary Containment:	NONE
Extrenal Protection:	Not reported
Leak Detection:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERATION KIA (Continued)**

**U003843398**

Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 4  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: MOTOR OIL  
Construction: STEEL/ IRON  
Dispenser: OTHER  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - OUT  
Tabk Status: IN SERVICE  
Total Capacity: 275 gallons  
Date Permitted: 06/01/1990  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 5  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: MOTOR OIL  
Construction: STEEL/ IRON  
Dispenser: OTHER  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - OUT  
Tabk Status: IN SERVICE  
Total Capacity: 275 gallons  
Date Permitted: 06/01/1990  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERATION KIA (Continued)**

**U003843398**

Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 7  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: TRANSMISSION FLUID  
Construction: STEEL/ IRON  
Dispenser: Not reported  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - OUT  
Tank Status: IN SERVICE  
Total Capacity: 275 gallons  
Date Permitted: 06/01/1990  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 8  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: WASTE OIL  
Construction: STEEL/ IRON  
Dispenser: Not reported  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - OUT  
Tank Status: REMOVED  
Total Capacity: 275 gallons  
Date Permitted: Not reported  
Date Closed: 03/11/2002  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERATION KIA (Continued)**

**U003843398**

Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

**H33  
NW  
1/8-1/4  
0.143 mi.  
756 ft.**

**LEE CHEVROLET  
4825 SUNRISE HWY  
BOHEMIA, NY 11716**

**Site 2 of 3 in cluster H**

**RCRA-CESQG  
FINDS  
ECHO  
NY MANIFEST**

**1000106507  
NYD982737017**

**Relative:  
Higher**

**RCRA-CESQG:**

Date form received by agency: 01/01/2007

Facility name: LEE CHEVROLET

Facility address: 4825 SUNRISE HWY  
BOHEMIA, NY 11716

EPA ID: NYD982737017

Mailing address: SUNRISE HWY  
BOHEMIA, NY 11716

Contact: PAUL FACOVITZ

Contact address: SUNRISE HWY  
BOHEMIA, NY 11716

Contact country: US

Contact telephone: (516) 589-3100

Contact email: Not reported

EPA Region: 02

Land type: Facility is not located on Indian land. Additional information is not known.

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Owner/Operator Summary:**

Owner/operator name: ROBERT LEE

Owner/operator address: 4825 SUNRISE HWY  
BOHEMIA, NY 11716

Owner/operator country: US

Owner/operator telephone: (516) 589-3100

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: Not reported

Owner/Op end date: Not reported

Owner/operator name: ROBERT LEE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET (Continued)**

**1000106507**

Owner/operator address: 4825 SUNRISE HWY  
BOHEMIA, NY 11716  
Owner/operator country: US  
Owner/operator telephone: (516) 589-3100  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 01/01/2006  
Site name: LEE CHEVROLET  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/09/1996  
Site name: LEE CHEVROLET  
Classification: Small Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET (Continued)**

**1000106507**

LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - Records/Reporting  
Date violation determined: 04/30/1993  
Date achieved compliance: 10/19/1993  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 08/04/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 1200  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Records/Reporting  
Date violation determined: 04/30/1993  
Date achieved compliance: 10/19/1993  
Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 10/19/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 1200  
Paid penalty amount: 1200

Evaluation Action Summary:

Evaluation date: 01/01/1994  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA

Evaluation date: 04/30/1993  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - Records/Reporting  
Date achieved compliance: 10/19/1993  
Evaluation lead agency: State

FINDS:

Registry ID: 110004430303

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET (Continued)**

**1000106507**

Registry ID: 110019563284

Environmental Interest/Information System

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000106507  
Registry ID: 110004430303  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110004430303>

NY MANIFEST:

Country: USA  
EPA ID: NYD982737017  
Facility Status: Not reported  
Location Address 1: 4825 SUNRISE HIGHWAY  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: BOHEMIA  
Location State: NY  
Location Zip: 11716  
Location Zip 4: Not reported

NY MANIFEST:

EPAID: NYD982737017  
Mailing Name: SUN AUTO GROUP  
Mailing Contact: JIM FALCONE  
Mailing Address 1: 4825 SUNRISE HIGHWAY  
Mailing Address 2: Not reported  
Mailing City: BOHEMIA  
Mailing State: NY  
Mailing Zip: 11716  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 5166313100

NY MANIFEST:

Document ID: Not reported  
Manifest Status: Not reported  
seq: Not reported  
Year: 2008  
Trans1 State ID: TXR000050930  
Trans2 State ID: Not reported  
Generator Ship Date: 10/27/2008  
Trans1 Recv Date: 10/27/2008  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 10/30/2008  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYD982737017



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEE CHEVROLET (Continued)

1000106507

Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDF ID 1: NJD982270506  
TSDF ID 2: Not reported  
Manifest Tracking Number: 001445954SKS  
Import Indicator: N  
Export Indicator: N  
Discr Quantity Indicator: N  
Discr Type Indicator: N  
Discr Residue Indicator: N  
Discr Partial Reject Indicator: N  
Discr Full Reject Indicator: N  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: H141  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 16.0  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 2.0  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 1.0  
Waste Code: D001  
Waste Code 1\_2: D018  
Waste Code 1\_3: D039  
Waste Code 1\_4: D040  
Waste Code 1\_5: Not reported  
Waste Code 1\_6: Not reported

[Click this hyperlink](#) while viewing on your computer to access  
81 additional NY\_MANIFEST: record(s) in the EDR Site Report.

H34  
NW  
1/8-1/4  
0.143 mi.  
756 ft.

LEE CHEVROLET INC.  
4825 SUNRISE HWY  
SAYVILLE, NY 11782  
Site 3 of 3 in cluster H

NJ MANIFEST S108794053  
N/A

Relative:  
Higher

NJ MANIFEST:  
EPA Id: NYD982737017  
Mail Address: 4825 SUNRISE HWY  
Mail City/State/Zip: SAYVILLE 11782  
Facility Phone: 5165893100  
Emergency Phone: 5165893100  
Contact: Not reported  
Comments: Not reported  
SIC Code: Not reported  
County: 00  
Municipal: 00  
Previous EPA Id: Not reported  
Gen Flag: X

Actual:  
49 ft.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

Trans Flag: Not reported  
TSDF Flag: Not reported  
Name Change: Not reported  
Date Change: 000000

Manifest:

Manifest Number: 001417274SKS  
EPA ID: NYD982737017  
Date Shipped: 08/04/2008  
TSDF EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 08/04/2008  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 08/07/2008  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H141  
Quantity: 10 G

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H141  
Quantity: 16 G



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

Manifest Number: 000333658SKS  
EPA ID: NYD982737017  
Date Shipped: 06/15/2007  
TSDf EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 06/15/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/19/2007  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H14  
Quantity: 11 G

Manifest Number: 000406683SKS  
EPA ID: NYD982737017  
Date Shipped: 03/22/2007  
TSDf EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 03/22/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 03/27/2007  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H14  
Quantity: 10 G

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H14  
Quantity: 14 G

Manifest Number: 001105666SKS  
EPA ID: NYD982737017  
Date Shipped: 05/12/2008  
TSDF EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 05/12/2008



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 05/14/2008  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H141  
Quantity: 10 G

Manifest Number: 000831662SKS  
EPA ID: NYD982737017  
Date Shipped: 11/27/2007  
TSDf EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 11/27/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 12/03/2007



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

Manifest Number: 000857497SKS  
EPA ID: NYD982737017  
Date Shipped: 08/31/2007  
TSDF EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 08/31/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 09/07/2007  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEE CHEVROLET INC. (Continued)

S108794053

Waste:

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H14  
Quantity: 10 G

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H14  
Quantity: 14 G

Manifest Number: 000998747SKS  
EPA ID: NYD982737017  
Date Shipped: 02/18/2008  
TSDF EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 02/18/2008  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 02/26/2008  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

Waste:

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H141



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

Quantity: 14 G

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H141  
Quantity: 10 G

Manifest Number: 001445954SKS  
EPA ID: NYD982737017  
Date Shipped: 10/27/2008  
TSDF EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 10/27/2008  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 10/30/2008  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H141  
Quantity: 10 G

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H141



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEE CHEVROLET INC. (Continued)

S108794053

Quantity: 16 G

Manifest Number: 000054125SKS  
EPA ID: NYD982737017  
Date Shipped: 07/13/2007  
TSDf EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 07/13/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 07/17/2007  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

Waste:

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H14  
Quantity: 10 G

Manifest Number: 000424077SKS  
EPA ID: NYD982737017  
Date Shipped: 01/05/2007  
TSDf EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEE CHEVROLET INC. (Continued)

S108794053

Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 01/05/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 01/09/2007  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

Waste:

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H14  
Quantity: 14 G

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H14  
Quantity: 10 G

35  
ESE  
1/8-1/4  
0.164 mi.  
868 ft.

COUNTRY CLUB APTS  
342 CNTY RD 93 LAKELAND AVE  
SAYVILLE, NY 11782

NY UST U003538567  
N/A

Relative:  
Lower

SUFFOLK CO. UST:

Region: SUFFOLK  
Site Ref#: 09427  
Status: Not reported

Actual:  
35 ft.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COUNTRY CLUB APTS (Continued)**

**U003538567**

Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

Facility Info:

Site Ref#: 09427  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: COUNTRY CLUB ASSOCIATES  
Storage Owner Address: 66 COMMACK RD  
Storage Owner City: COMMACK  
Storage Owner State: NY  
Storage Owner Zip: 11725

Tank Info:

Facility ID: 09427  
Facility Reference #: 12523  
Official Use: Removed Tank. 92  
Township: ISLIP  
Tax Map No: 0500 305.00 003 030.000  
Region: SUFFOLK  
Permit to Operate: Not reported

Tank ID: 1  
Tank Key: 26184  
Installed: 69  
Capacity: 0000002000  
Substance: #2 FUEL OIL  
Date Removed: 121692  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000002000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 121692  
Year Installed: 69  
Description of drop records: RECORDS AS OF 09/10/2013



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

36  
NNE  
1/8-1/4  
0.181 mi.  
958 ft.

**K MART**  
**5151 RTE 27 SUNRISE HWY**  
**BOHEMIA, NY 11716**

**NY AST** **A100197438**  
**N/A**

**Relative:**  
**Higher**

AST\_SUFFOLK:

**Actual:**  
**44 ft.**

Region: SUFFOLK  
Site Ref#: 10103  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

Facility Info:

Site Ref#: 10103  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: K MART  
Storage Owner Address: 5151 RTE 27 SUNRISE HWY  
Storage Owner City: BOHEMIA  
Storage Owner State: NY  
Storage Owner Zip: 11716

Tank Info:

Facility ID: 10103  
Facility Reference #: 14470  
Township: ISLIP  
Tax Map No: 0500  
Region: SUFFOLK

Tank ID: 1  
Tank Key: 29308  
Year Installed: Not reported  
Substance: WASTE OIL  
Construction: Not reported  
Dispenser: Not reported  
Official Use: Removed Tank. 99  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000250  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**K MART (Continued)**

**A100197438**

Fill: Not reported  
Date Removed: 050199  
  
Tank ID: 2  
Tank Key: 29309  
Year Installed: Not reported  
Substance: WASTE OIL  
Construction: Not reported  
Dispenser: Not reported  
Official Use: Permitted Tank. Permit Runs Out. 04  
Permit to Operate: 062499  
Tank Location: ABOVE  
Tabk Status: Not reported  
Total Capacity: 0000000280  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: Not reported

I37  
WNW  
1/8-1/4  
0.184 mi.  
972 ft.

**EDWARDS 0138**  
**57-05 SUNRISE HWY**  
**SAYVILLE, NY 11782**  
  
**Site 1 of 4 in cluster I**

**RCRA NonGen / NLR 1001223659**  
**FINDS NYR000048744**  
**ECHO**  
**NY MANIFEST**

**Relative:**  
**Higher**

**Actual:**  
**47 ft.**

RCRA NonGen / NLR:  
Date form received by agency: 01/01/2007  
Facility name: EDWARDS 0138  
Facility address: 57-05 SUNRISE HWY  
SAYVILLE, NY 11782  
EPA ID: NYR000048744  
Mailing address: SUNRISE HWY  
SAYVILLE, NY 11782  
Contact: JAMES KHANIS  
Contact address: SUNRISE HWY  
SAYVILLE, NY 11782  
Contact country: US  
Contact telephone: (516) 218-8626  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EDWARDS 0138 (Continued)**

**1001223659**

Owner/Operator Summary:

Owner/operator name: MAYFAIR SUPERMARKETS INC  
Owner/operator address: 93 QUINTON ROOSEVELT BLVD  
GARDEN CITY, NY 11530  
Owner/operator country: US  
Owner/operator telephone: (516) 794-7530  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: MAYFAIR SUPERMARKETS INC  
Owner/operator address: 93 QUINTON ROOSEVELT BLVD  
GARDEN CITY, NY 11530  
Owner/operator country: US  
Owner/operator telephone: (516) 794-7530  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Site name: EDWARDS 0138  
Classification: Not a generator, verified

Date form received by agency: 01/08/1998  
Site name: EDWARDS 0138  
Classification: Small Quantity Generator

. Waste code: D000  
. Waste name: Not Defined  
  
. Waste code: D001  
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EDWARDS 0138 (Continued)**

**1001223659**

Registry ID: 110004539492

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1001223659  
Registry ID: 110004539492  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110004539492>

NY MANIFEST:

Country: USA  
EPA ID: NYR000048744  
Facility Status: Not reported  
Location Address 1: 37-05 SUNRISE HWY  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: SAYVILLE  
Location State: NY  
Location Zip: 11741  
Location Zip 4: Not reported

NY MANIFEST:

EPAID: NYR000048744  
Mailing Name: EDWARDS 0138  
Mailing Contact: JAMES KHANIS  
Mailing Address 1: 37-05 SUNRISE HWY  
Mailing Address 2: Not reported  
Mailing City: SAYVILLE  
Mailing State: NY  
Mailing Zip: 11741  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 5162182626

NY MANIFEST:

Document ID: NYH0082134  
Manifest Status: Not reported  
seq: 01  
Year: 1999  
Trans1 State ID: 14467AK  
Trans2 State ID: Not reported  
Generator Ship Date: 09/21/1999  
Trans1 Recv Date: 09/21/1999  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 09/21/1999



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EDWARDS 0138 (Continued)**

**1001223659**

Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYR000048744  
Trans1 EPA ID: NYD082785429  
Trans2 EPA ID: Not reported  
TSDF ID 1: NYD082785429  
TSDF ID 2: Not reported  
Manifest Tracking Number: Not reported  
Import Indicator: Not reported  
Export Indicator: Not reported  
Discr Quantity Indicator: Not reported  
Discr Type Indicator: Not reported  
Discr Residue Indicator: Not reported  
Discr Partial Reject Indicator: Not reported  
Discr Full Reject Indicator: Not reported  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: Not reported  
Waste Code: D011 - SILVER 5.0 MG/L TCLP  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 00015  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 001  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 01.00

[Click this hyperlink](#) while viewing on your computer to access  
54 additional NY\_MANIFEST: record(s) in the EDR Site Report.

**38**  
**SW**  
**1/8-1/4**  
**0.192 mi.**  
**1013 ft.**

**ARIEL GRAPHICS**  
**80 BOURNE BLVD**  
**SAYVILLE, NY 11782**

**RCRA NonGen / NLR** **1000203549**  
**FINDS** **NYD986866556**  
**ECHO**

**Relative:**  
**Higher**

RCRA NonGen / NLR:  
Date form received by agency: 01/01/2007  
Facility name: ARIEL GRAPHICS  
Facility address: 80 BOURNE BLVD  
SAYVILLE, NY 117823307  
EPA ID: NYD986866556  
Mailing address: PO BOX 100  
SAYVILLE, NY 11782  
Contact: Not reported  
Contact address: PO BOX 100  
SAYVILLE, NY 11782  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator

**Actual:**  
**43 ft.**



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARIEL GRAPHICS (Continued)**

**1000203549**

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: ANDREA WANDELT  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: ANDREA WANDELT  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Site name: ARIEL GRAPHICS  
Classification: Not a generator, verified

Date form received by agency: 07/08/1999  
Site name: ARIEL GRAPHICS  
Classification: Not a generator, verified

Date form received by agency: 05/04/1988  
Site name: ARIEL GRAPHICS  
Classification: Large Quantity Generator

. Waste code: D000  
. Waste name: Not Defined



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARIEL GRAPHICS (Continued)**

**1000203549**

Violation Status: No violations found

**FINDS:**

Registry ID: 110004436085

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000203549  
Registry ID: 110004436085  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110004436085>

**I39  
WNW  
1/8-1/4  
0.208 mi.  
1100 ft.**

**SUNRISE DIAGNOSTICS & AMOCO S/S  
635 SMITHTOWN AVE  
BOHEMIA, NY 11716**

**NY UST U003538067  
NY AST N/A**

**Site 2 of 4 in cluster I**

**Relative:  
Higher**

**SUFFOLK CO. UST:**

Region: SUFFOLK  
Site Ref#: 09638  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

**Actual:  
47 ft.**

**Facility Info:**

Site Ref#: 09638  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: NYS DOT REGION 10  
Storage Owner Address: 635 STATE OFFICE BLDG  
Storage Owner City: HAUPPAUGE  
Storage Owner State: NY  
Storage Owner Zip: 11788

**Tank Info:**

Facility ID: 09638  
Facility Reference #: 13113  
Official Use: Removed Tank. 90  
Township: ISLIP  
Tax Map No: 0500 256.00 002 018.000  
Region: SUFFOLK  
Permit to Operate: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Tank ID: 1  
Tank Key: 27459  
Installed: 77  
Capacity: 0000008000  
Substance: GASOLINE  
Date Removed: 101590  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000008000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 101590  
Year Installed: 77  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 2  
Tank Key: 27460  
Installed: 61  
Capacity: 0000003000  
Substance: GASOLINE  
Date Removed: 010185  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000003000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010185  
Year Installed: 61  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 3  
Tank Key: 27461  
Installed: 61  
Capacity: 0000003000  
Substance: GASOLINE  
Date Removed: 010185  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000003000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010185  
Year Installed: 61  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 4  
Tank Key: 27462  
Installed: 72  
Capacity: 0000006000  
Substance: GASOLINE  
Date Removed: 101590  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000006000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 101590  
Year Installed: 72  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 5  
Tank Key: 27463  
Installed: 61  
Capacity: 0000000550  
Substance: WASTE OIL  
Date Removed: 102490  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000000550  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 102490  
Year Installed: 61  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 6  
Tank Key: 27464  
Installed: 85  
Capacity: 0000008000  
Substance: GASOLINE  
Date Removed: 050995  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Total Capacity: 0000008000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 050995  
Year Installed: 85  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 7  
Tank Key: 27465  
Installed: Not reported  
Capacity: 0000000550  
Substance: #2 FUEL OIL  
Date Removed: 110290  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000000550  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 110290  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 8  
Tank Key: 27466  
Installed: 90  
Capacity: 0000010000



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Substance: GASOLINE  
Date Removed: 050995  
Construction: FRP / FRP  
Dispenser: SUBMERSIBLE  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000010000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 050995  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 9  
Tank Key: 27467  
Installed: 90  
Capacity: 0000010000  
Substance: GASOLINE  
Date Removed: 050995  
Construction: FRP / FRP  
Dispenser: SUBMERSIBLE  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000010000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 050995  
Year Installed: 90



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Description of drop records: RECORDS AS OF 09/10/2013

**AST\_SUFFOLK:**

Region: SUFFOLK  
Site Ref#: 09638  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

**Facility Info:**

Site Ref#: 09638  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: NYS DOT REGION 10  
Storage Owner Address: 635 STATE OFFICE BLDG  
Storage Owner City: HAUPPAUGE  
Storage Owner State: NY  
Storage Owner Zip: 11788

**Tank Info:**

Facility ID: 09638  
Facility Reference #: 13113  
Township: ISLIP  
Tax Map No: 0500  
Region: SUFFOLK

Tank ID: 10  
Tank Key: 27468  
Year Installed: 90  
Substance: WASTE OIL  
Construction: STEEL  
Dispenser: SUCTION  
Official Use: Removed Tank. 90  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000275  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Date Removed: 100190

Tank ID: 11  
Tank Key: 27469  
Year Installed: 90  
Substance: #2 FUEL OIL  
Construction: STEEL  
Dispenser: GRAVITY  
Official Use: Removed Tank. 95  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000275  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 050995

**I40**  
**WNW**  
**1/8-1/4**  
**0.208 mi.**  
**1100 ft.**

**AMOCO**  
**635 SMITHTOWN AVE**  
**BOHEMIA, NY**

**Site 3 of 4 in cluster I**

**NY LTANKS** **S101102378**  
**NY Spills** **N/A**

**Relative:**  
**Higher**

LTANKS:  
Site ID: 103635  
Spill Number/Closed Date: 9403110 / 1995-02-22  
Spill Date: 1994-06-02  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station or other PBS Facility  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: 1995-02-22  
Cleanup Meets Standard: True  
SWIS: 5200  
Investigator: T/T/F  
Referred To: Not reported  
Reported to Dept: 1994-06-02  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: True

**Actual:**  
**47 ft.**



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO (Continued)**

**S101102378**

Remediation Phase: 0  
Date Entered In Computer: 1994-06-06  
Spill Record Last Update: 1995-02-23  
Spiller Name: Not reported  
Spiller Company: AMOCO  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller County: 999  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 91636  
DEC Memo: ""  
Remarks: "TYREE TESTER, LINE FAILURE"

**Material:**

Site ID: 103635  
Operable Unit ID: 1000137  
Operable Unit: 01  
Material ID: 383281  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Site ID: 103635  
Spill Tank Test: 1542816  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: Not reported  
Test Method: Unknown

**SPILLS:**

Facility ID: 9412772  
Facility Type: ER  
DER Facility ID: 68521  
Site ID: 72628  
DEC Region: 1  
Spill Date: 1994-12-21  
Spill Number/Closed Date: 9412772 / 1994-12-29  
Spill Cause: Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 5200



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO (Continued)**

**S101102378**

Investigator: SCHULZ  
Referred To: Not reported  
Reported to Dept: 1994-12-23  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Affected Persons  
Cleanup Ceased: 1994-12-29  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1994-12-27  
Spill Record Last Update: 1994-12-30  
Spiller Name: Not reported  
Spiller Company: AMOCO STATION  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: ""  
Remarks: "ATTEMPTED TO USE GAS PUMP, NO HOSE ON PUMP THEY WERE USING, NO SIGN STATING PUMP WAS OUT OF SERVICE, SCPD ON SCENE,"

**Material:**

Site ID: 72628  
Operable Unit ID: 1006396  
Operable Unit: 01  
Material ID: 375064  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 9202954  
Facility Type: ER  
DER Facility ID: 345780  
Site ID: 72627  
DEC Region: 1  
Spill Date: 1992-05-29  
Spill Number/Closed Date: 9202954 / 1996-01-29  
Spill Cause: Unknown  
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.  
SWIS: 5228  
Investigator: KMYAGER  
Referred To: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO (Continued)**

**S101102378**

Reported to Dept: 1992-06-10  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Local Agency  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1992-06-11  
Spill Record Last Update: 2008-04-14  
Spiller Name: Not reported  
Spiller Company: AMOCO S/S  
Spiller Address: Not reported  
Spiller City,St,Zip: ZZ  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
DEROSA WELL "  
Remarks: "SITE ASSESSMENT SHOWS: 18,885 PPB VOC'S IN WATER & 458,475 PPB VOC'S  
IN SOIL"

**Material:**

Site ID: 72627  
Operable Unit ID: 970267  
Operable Unit: 01  
Material ID: 410781  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 9111391  
Facility Type: ER  
DER Facility ID: 345780  
Site ID: 72626  
DEC Region: 1  
Spill Date: 1992-02-04  
Spill Number/Closed Date: 9111391 / 1992-02-11  
Spill Cause: Human Error  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 5228  
Investigator: RICE  
Referred To: Not reported  
Reported to Dept: 1992-02-04



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO (Continued)**

**S101102378**

CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other  
Cleanup Ceased: 1992-02-11  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1992-02-05  
Spill Record Last Update: 2015-01-06  
Spiller Name: Not reported  
Spiller Company: VINCENT DISCALO (CUSTOMER)  
Spiller Address: 136 CARROLL AVENUE  
Spiller City,St,Zip: LAKE RONKONKOMA, ZZ  
Spiller Company: 001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
RICE 2/7/92 SITE CHECKED, SPILL CLEANED UP. NO FURTHER ACTION  
REQUESTED AT THIS TIME"

Remarks: "SPILL CONTAINED ON PAVEMENT, DEALER APPLIED ABSORBANT"

**Material:**

Site ID: 72626  
Operable Unit ID: 965110  
Operable Unit: 01  
Material ID: 416425  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Facility ID: 9102566  
Facility Type: ER  
DER Facility ID: 68521  
Site ID: 72625  
DEC Region: 1  
Spill Date: 1991-06-04  
Spill Number/Closed Date: 9102566 / 1991-06-11  
Spill Cause: Human Error  
Spill Class: Not reported  
SWIS: 5200  
Investigator: KMYAGER  
Referred To: Not reported  
Reported to Dept: 1991-06-04  
CID: Not reported  
Water Affected: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO (Continued)**

**S101102378**

Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other  
Cleanup Ceased: 1991-06-11  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1991-06-05  
Spill Record Last Update: 1991-06-12  
Spiller Name: Not reported  
Spiller Company: AMOCO S/S  
Spiller Address: 635 SMITHTOWN AVENUE  
Spiller City,St,Zip: BOHEMIA, NY  
001  
Contact Name: Not reported  
Contact Phone: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
DEROSA 06/11/91: SPILL CONTAINED AND CLEANED UP. NO FURTHER ACTION. "  
Remarks: "CAR PULLED AWAY WITH NOZZLE STILL IN TANK, SPILL WAS CONTAINED. FUEL  
WILL BE PUMPED BACK INTO TANK"

**Material:**

Site ID: 72625  
Operable Unit ID: 953471  
Operable Unit: 01  
Material ID: 425077  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 4.00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

**I41**  
**WNW**  
**1/8-1/4**  
**0.208 mi.**  
**1100 ft.**

**TARTAN OIL CO**  
**635 SMITHTOWN AVE**  
**BOHEMIA, NY 11716**

**Site 4 of 4 in cluster I**

**RCRA NonGen / NLR** **1004571542**  
**ICIS** **NYD986931954**  
**FINDS**  
**ECHO**  
**NY MANIFEST**

**Relative:**  
**Higher**

**RCRA NonGen / NLR:**

**Actual:**  
**47 ft.**

Date form received by agency: 01/01/2007  
Facility name: TARTAN OIL CO  
Facility address: 635 SMITHTOWN AVE  
BOHEMIA, NY 11716  
EPA ID: NYD986931954  
Mailing address: PO BOX 1017  
MELVILLE, NY 11747  
Contact: ALLEN LEON  
Contact address: PO BOX 1017  
MELVILLE, NY 11747  
Contact country: US



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TARTAN OIL CO (Continued)**

**1004571542**

Contact telephone: (516) 420-8080  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: TARTAN OIL CO  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: TARTAN OIL CO  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Site name: TARTAN OIL CO  
Classification: Not a generator, verified

Date form received by agency: 11/29/1990  
Site name: TARTAN OIL CO  
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TARTAN OIL CO (Continued)**

**1004571542**

Violation Status: No violations found

ICIS:

Enforcement Action ID: 02-1990-0098  
FRS ID: 110004456703  
Action Name: TARTAN OIL CO  
Facility Name: TARTAN OIL CO  
Facility Address: 635 SMITHTOWN AVE  
BOHEMIA, NY 11716  
Enforcement Action Type: CAA 113 Notice Of Violation  
Facility County: SUFFOLK  
Program System Acronym: ICIS  
Enforcement Action Forum Desc: Administrative - Formal  
EA Type Code: 113  
Facility SIC Code: Not reported  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 40.756196  
Longitude in Decimal Degrees: -73.106782  
Permit Type Desc: Not reported  
Program System Acronym: 25626  
Facility NAICS Code: Not reported  
Tribal Land Code: Not reported

Facility Name: TARTAN OIL CO  
Address: 635 SMITHTOWN AVE  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

Facility Name: TARTAN OIL CO  
Address: 635 SMITHTOWN AVE  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

**FINDS:**

Registry ID: 110004456703

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TARTAN OIL CO (Continued)**

**1004571542**

information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1004571542  
Registry ID: 110004456703  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110004456703>

**NY MANIFEST:**

Country: USA  
EPA ID: NYD986931954  
Facility Status: Not reported  
Location Address 1: SUNRISE HWY & SMITHTOWN AVE  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: BOHEMIA  
Location State: NY  
Location Zip: 11716  
Location Zip 4: Not reported

**NY MANIFEST:**

EPAID: NYD986931954  
Mailing Name: TARTAN OIL COMPANY  
Mailing Contact: TARTAN OIL COMPANY  
Mailing Address 1: SUNRISE HWY & SMITHTOWN AVE  
Mailing Address 2: Not reported  
Mailing City: BOHEMIA  
Mailing State: NY  
Mailing Zip: 11716  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 0000000000

**NY MANIFEST:**

Document ID: NJA0783401  
Manifest Status: K  
seq: Not reported  
Year: 1990  
Trans1 State ID: NJDEPS103  
Trans2 State ID: Not reported  
Generator Ship Date: 12/06/1990  
Trans1 Recv Date: 12/06/1990  
Trans2 Recv Date: / /  
TSD Site Recv Date: 12/06/1990  
Part A Recv Date: 01/10/1991  
Part B Recv Date: 01/16/1991



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TARTAN OIL CO (Continued)**

**1004571542**

Generator EPA ID: NYD986931954  
Trans1 EPA ID: NJD982280851  
Trans2 EPA ID: Not reported  
TSDF ID 1: NJD002200046  
TSDF ID 2: Not reported  
Manifest Tracking Number: Not reported  
Import Indicator: Not reported  
Export Indicator: Not reported  
Discr Quantity Indicator: Not reported  
Discr Type Indicator: Not reported  
Discr Residue Indicator: Not reported  
Discr Partial Reject Indicator: Not reported  
Discr Full Reject Indicator: Not reported  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: Not reported  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 00220  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 004  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100

[Click this hyperlink](#) while viewing on your computer to access additional NY\_MANIFEST: detail in the EDR Site Report.

42  
SSE  
1/8-1/4  
0.241 mi.  
1274 ft.

**WEST SAYVILLE IFS TRANSMITTER  
CHERRY AVE  
WEST SAYVILLE, NY 11796**

**SEMS-ARCHIVE 1000393751  
RCRA NonGen / NLR NY8690536208  
NY MANIFEST**

**Relative:  
Lower**

SEMS-ARCHIVE:  
Site ID: 203780  
EPA ID: NY8690536208  
Federal Facility: Y  
NPL: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**Actual:  
26 ft.**

**Following information was gathered from the prior CERCLIS update completed in 10/2013:**

Site ID: 0203780  
Federal Facility: Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**CERCLIS-NFRAP Site Contact Details:**

Contact Sequence ID: 2276360.00000  
Person ID: 2000168.00000



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WEST SAYVILLE IFS TRANSMITTER (Continued)**

**1000393751**

Contact Sequence ID: 2276690.00000  
Person ID: 2000112.00000

Contact Sequence ID: 13114920.00000  
Person ID: 2000112.00000

Contact Sequence ID: 13120751.00000  
Person ID: 2000176.00000

Contact Sequence ID: 13377266.00000  
Person ID: 2000146.00000

**CERCLIS-NFRAP Site Alias Name(s):**

Alias Name: WEST SAYVILLE IFS TRANSMITTER  
Alias Address: CHERRY AVE  
WEST SAYVILLE, NY 11796

**CERCLIS-NFRAP Assessment History:**

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 09/10/96  
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: DISCOVERY  
Date Started: / /  
Date Completed: 04/21/93  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 08/30/94  
Priority Level: Higher priority for further assessment

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 01/31/97  
Priority Level: Not reported

**RCRA NonGen / NLR:**

Date form received by agency: 01/01/2007  
Facility name: WEST SAYVILLE IFS TRANSMITTER  
Facility address: CHERRY AVE  
WEST SAYVILLE, NY 11796  
EPA ID: NY8690536208  
Mailing address: AIRWAYS RD  
RONKONKOMA, NY 11779  
Contact: Not reported  
Contact address: AIRWAYS RD  
RONKONKOMA, NY 11779  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WEST SAYVILLE IFS TRANSMITTER (Continued)**

**1000393751**

Owner/Operator Summary:

Owner/operator name: USDOT/FAA  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Federal  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: USDOT/FAA  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: (212) 555-1212  
Legal status: Federal  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006  
Site name: WEST SAYVILLE IFS TRANSMITTER  
Classification: Not a generator, verified

Date form received by agency: 07/08/1999  
Site name: WEST SAYVILLE IFS TRANSMITTER  
Classification: Not a generator, verified

Date form received by agency: 02/15/1996  
Site name: DOT FAA WEST SAYVILLE IFST  
Classification: Large Quantity Generator

Date form received by agency: 04/16/1990  
Site name: WEST SAYVILLE IFS TRANSMITTER  
Classification: Large Quantity Generator

. Waste code: X002



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WEST SAYVILLE IFS TRANSMITTER (Continued)**

**1000393751**

. Waste name: POLYCHLORINATED BIPHENOLS (PCBs)

Violation Status: No violations found

NY MANIFEST:

Country: USA  
EPA ID: NY8690536208  
Facility Status: Not reported  
Location Address 1: FED.AVIATION ADM.CHERRY AVENUE  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: WEST SAYVILLE  
Location State: NY  
Location Zip: 11796  
Location Zip 4: Not reported

NY MANIFEST:

EPAID: NY8690536208  
Mailing Name: UNITED STATES MILITARY  
Mailing Contact: RONALD DESIMONE  
Mailing Address 1: MACARTHUR AIRPORT/FED AVIATION  
Mailing Address 2: Not reported  
Mailing City: RONKONKOMA  
Mailing State: NY  
Mailing Zip: 11779  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 5166832883

NY MANIFEST:

Document ID: NYB8565777  
Manifest Status: K  
seq: Not reported  
Year: 1996  
Trans1 State ID: Not reported  
Trans2 State ID: Not reported  
Generator Ship Date: 11/27/1996  
Trans1 Recv Date: 11/27/1996  
Trans2 Recv Date: / /  
TSD Site Recv Date: 11/27/1996  
Part A Recv Date: 12/20/1996  
Part B Recv Date: 01/10/1997  
Generator EPA ID: NY8690536208  
Trans1 EPA ID: NY0000936385  
Trans2 EPA ID: Not reported  
TSDF ID 1: NYD077444263  
TSDF ID 2: Not reported  
Manifest Tracking Number: Not reported  
Import Indicator: Not reported  
Export Indicator: Not reported  
Discr Quantity Indicator: Not reported  
Discr Type Indicator: Not reported  
Discr Residue Indicator: Not reported  
Discr Partial Reject Indicator: Not reported  
Discr Full Reject Indicator: Not reported  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WEST SAYVILLE IFS TRANSMITTER (Continued)**

**1000393751**

Alt Facility Sign Date: Not reported  
MGMT Method Type Code: Not reported  
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 00080  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 002  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100

[Click this hyperlink](#) while viewing on your computer to access  
6 additional NY\_MANIFEST: record(s) in the EDR Site Report.

**43**  
**WNW**  
**1/8-1/4**  
**0.248 mi.**  
**1307 ft.**

**BOHEMIA AUTO WASH**  
**4740 SOUTH SUNRISE HWY**  
**BOHEMIA, NY 11716**

**NY UST** **U004122400**  
**NY AST** **N/A**

**Relative:**  
**Higher**

UST:

**Actual:**  
**46 ft.**

Id/Status: 1-000306 / Unregulated/Closed  
Program Type: PBS  
Region: STATE  
DEC Region: 1  
Expiration Date: N/A  
UTM X: 659545.28454  
UTM Y: 4513358.85445  
Site Type: Retail Gasoline Sales

Affiliation Records:

Site Id: 397494  
Affiliation Type: Facility Owner  
Company Name: ALL STAR CAR WASH  
Contact Type: OWNER  
Contact Name: VINNY MISURACA  
Address1: 4740 SUNRISE HIGHWAY  
Address2: Not reported  
City: BOHEMIA  
State: NY  
Zip Code: 11716  
Country Code: 001  
Phone: Not reported  
Email: Not reported  
Fax Number: Not reported  
Modified By: njacampo  
Date Last Modified: 2008-05-08

Site Id: 397494  
Affiliation Type: Mail Contact  
Company Name: ALL STAR CAR WASH  
Contact Type: OWNER  
Contact Name: VINNY MISURACA



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA AUTO WASH (Continued)**

**U004122400**

Address1: 4740 SUNRISE HIGHWAY  
Address2: Not reported  
City: BOHEMIA  
State: NY  
Zip Code: 11716  
Country Code: 001  
Phone: Not reported  
EMail: Not reported  
Fax Number: Not reported  
Modified By: njacampo  
Date Last Modified: 2008-05-08

Site Id: 397494  
Affiliation Type: On-Site Operator  
Company Name: CITGO  
Contact Type: Not reported  
Contact Name: ALL STAR CAR WASH  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NY  
Zip Code: Not reported  
Country Code: 001  
Phone: (631) 244-0044  
EMail: Not reported  
Fax Number: Not reported  
Modified By: njacampo  
Date Last Modified: 2008-05-08

Site Id: 397494  
Affiliation Type: Emergency Contact  
Company Name: ALL STAR CAR WASH  
Contact Type: Not reported  
Contact Name: VINNY MISURACA  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: Not reported  
EMail: Not reported  
Fax Number: Not reported  
Modified By: njacampo  
Date Last Modified: 2008-05-08

**Tank Info:**

Tank Number: 1  
Tank ID: 222866  
Tank Status: Tank Converted to Non-Regulated Use  
Material Name: Tank Converted to Non-Regulated Use  
Capacity Gallons: 15000  
Install Date: Not reported  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA AUTO WASH (Continued)**

**U004122400**

Tank Type: Equivalent technology  
Material Code: 0008  
Common Name of Substance: Diesel

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: njacampo  
Last Modified: 05/08/2008

Equipment Records:

H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
L08 - Piping Leak Detection - Tank Top Sump  
I02 - Overfill - High Level Alarm  
A00 - Tank Internal Protection - None  
C02 - Pipe Location - Underground/On-ground  
K01 - Spill Prevention - Catch Basin  
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)  
E04 - Piping Secondary Containment - Double walled UG  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
H05 - Tank Leak Detection - In-Tank System (ATG)  
B00 - Tank External Protection - None  
J01 - Dispenser - Pressurized Dispenser

Tank Number: 2  
Tank ID: 222867  
Tank Status: Tank Converted to Non-Regulated Use  
Material Name: Tank Converted to Non-Regulated Use  
Capacity Gallons: 8000  
Install Date: Not reported  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Equivalent technology  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: njacampo  
Last Modified: 05/08/2008

Equipment Records:

A00 - Tank Internal Protection - None  
C02 - Pipe Location - Underground/On-ground  
I02 - Overfill - High Level Alarm  
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)  
K01 - Spill Prevention - Catch Basin  
E04 - Piping Secondary Containment - Double walled UG  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
J01 - Dispenser - Pressurized Dispenser  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
L08 - Piping Leak Detection - Tank Top Sump  
B00 - Tank External Protection - None



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA AUTO WASH (Continued)**

**U004122400**

H05 - Tank Leak Detection - In-Tank System (ATG)

Tank Number: 3  
Tank ID: 222868  
Tank Status: Tank Converted to Non-Regulated Use  
Material Name: Tank Converted to Non-Regulated Use  
Capacity Gallons: 8000  
Install Date: Not reported  
Date Tank Closed: Not reported  
Registered: True  
Tank Location: Underground  
Tank Type: Equivalent technology  
Material Code: 0009  
Common Name of Substance: Gasoline

Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Pipe Model: Not reported  
Modified By: njacampo  
Last Modified: 05/08/2008

Equipment Records:

J01 - Dispenser - Pressurized Dispenser  
E04 - Piping Secondary Containment - Double walled UG  
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring  
L08 - Piping Leak Detection - Tank Top Sump  
G04 - Tank Secondary Containment - Double-Walled (Underground)  
A00 - Tank Internal Protection - None  
C02 - Pipe Location - Underground/On-ground  
I02 - Overfill - High Level Alarm  
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)  
K01 - Spill Prevention - Catch Basin  
B00 - Tank External Protection - None  
H05 - Tank Leak Detection - In-Tank System (ATG)

SUFFOLK CO. UST:

Region: SUFFOLK  
Site Ref#: 05486  
Status: ACTIVE  
Site Type: PBS  
Operating Permit Expires: 02/28/2018  
Owner/Storage Information: AVAILABLE

Facility Info:

Site Ref#: 05486  
Billing Contact: BOHEMIA AUTO WASH  
Billing Address: 4740 SOUTH SUNRISE HWY  
Billing Address: BOHEMIA  
Billing State: NY  
Billing Zip: 11716  
Storage Owner: BOHEMIA AUTO WASH  
Storage Owner Address: 4740 SOUTH SUNRISE HWY  
Storage Owner City: BOHEMIA  
Storage Owner State: NY  
Storage Owner Zip: 11716



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA AUTO WASH (Continued)**

**U004122400**

Tank Info:

Facility ID: 05486  
Facility Reference #: Not reported  
Official Use: Not reported  
Township: Not reported  
Tax Map No: Not reported  
Region: SUFFOLK  
Permit to Operate: Not reported

Tank ID: 7  
Tank Key: Not reported  
Installed: Not reported  
Capacity: 12000 gallons  
Substance: GASOLINE  
Date Removed: Not reported  
Construction: FIBER REINFORCED PLASTIC  
Dispenser: SUBMERSIBLE  
Fill Type: Not reported  
Tank Location: UNDER - OUT  
Tank Status: IN SERVICE  
Total Capacity: 12000 gallons  
Date Permitted: 03/19/1998  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: SECONDARY WALL - FIBERGLASS  
External Protection: NONE  
Leak Detection: (DWP) ELECTRONIC LEAK PROBES  
Overfill Prevention: - Electronic Leak Alarm  
Spill Prevention: SPILL/FILL BOX AND/OR SUMP  
Pipe Location: UNDERGROUND ONLY  
Pipe Type: FLEXIBLE  
Pipe External Protection: NONE  
Pipe Containment: FLEXIBLE  
Pipe Leak Detection: ELECTRONIC LEAK PROBE & AUTO LINE LEAK DETECTOR  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported  
Year Installed: Not reported  
Description of drop records: Not reported

Tank ID: 8  
Tank Key: Not reported  
Installed: Not reported  
Capacity: 8000 gallons  
Substance: GASOLINE  
Date Removed: Not reported  
Construction: FIBER REINFORCED PLASTIC  
Dispenser: SUBMERSIBLE  
Fill Type: Not reported  
Tank Location: UNDER - OUT  
Tank Status: IN SERVICE  
Total Capacity: 8000 gallons  
Date Permitted: 03/19/1998  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: SECONDARY WALL - FIBERGLASS



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA AUTO WASH (Continued)**

**U004122400**

Extrenal Protection: NONE  
Leak Detection: (DWP) ELECTRONIC LEAK PROBES  
Overfill Prevention: - Electronic Leak Alarm  
Spill Prevention: SPILL/FILL BOX AND/OR SUMP  
Pipe Location: UNDERGROUND ONLY  
Pipe Type: FLEXIBLE  
Pipe External Protection: NONE  
Pipe Containment: FLEXIBLE  
Pipe Leak Detection: ELECTRONIC LEAK PROBE & AUTO LINE LEAK DETECTOR  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported  
Year Installed: Not reported  
Description of drop records: Not reported

Tank ID: 9  
Tank Key: Not reported  
Installed: Not reported  
Capacity: 8000 gallons  
Substance: DIESEL  
Date Removed: Not reported  
Construction: FIBER REINFORCED PLASTIC  
Dispenser: SUBMERSIBLE  
Fill Type: Not reported  
Tank Location: UNDER - OUT  
Tabk Status: IN SERVICE  
Total Capacity: 8000 gallons  
Date Permitted: 03/19/1998  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: SECONDARY WALL - FIBERGLASS  
Extrenal Protection: NONE  
Leak Detection: (DWP) ELECTRONIC LEAK PROBES  
Overfill Prevention: - Electronic Leak Alarm  
Spill Prevention: SPILL/FILL BOX AND/OR SUMP  
Pipe Location: UNDERGROUND ONLY  
Pipe Type: FLEXIBLE  
Pipe External Protection: NONE  
Pipe Containment: FLEXIBLE  
Pipe Leak Detection: ELECTRONIC LEAK PROBE & AUTO LINE LEAK DETECTOR  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported  
Year Installed: Not reported  
Description of drop records: Not reported

AST:  
Region: STATE  
DEC Region: 1  
Site Status: Unregulated/Closed  
Facility Id: 1-000306  
Program Type: PBS  
UTM X: 659545.28454  
UTM Y: 4513358.85445  
Expiration Date: N/A



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA AUTO WASH (Continued)**

**U004122400**

Site Type: Retail Gasoline Sales

Affiliation Records:

Site Id: 397494  
Affiliation Type: Facility Owner  
Company Name: ALL STAR CAR WASH  
Contact Type: OWNER  
Contact Name: VINNY MISURACA  
Address1: 4740 SUNRISE HIGHWAY  
Address2: Not reported  
City: BOHEMIA  
State: NY  
Zip Code: 11716  
Country Code: 001  
Phone: Not reported  
EMail: Not reported  
Fax Number: Not reported  
Modified By: njacampo  
Date Last Modified: 2008-05-08

Site Id: 397494  
Affiliation Type: Mail Contact  
Company Name: ALL STAR CAR WASH  
Contact Type: OWNER  
Contact Name: VINNY MISURACA  
Address1: 4740 SUNRISE HIGHWAY  
Address2: Not reported  
City: BOHEMIA  
State: NY  
Zip Code: 11716  
Country Code: 001  
Phone: Not reported  
EMail: Not reported  
Fax Number: Not reported  
Modified By: njacampo  
Date Last Modified: 2008-05-08

Site Id: 397494  
Affiliation Type: On-Site Operator  
Company Name: CITGO  
Contact Type: Not reported  
Contact Name: ALL STAR CAR WASH  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NY  
Zip Code: Not reported  
Country Code: 001  
Phone: (631) 244-0044  
EMail: Not reported  
Fax Number: Not reported  
Modified By: njacampo  
Date Last Modified: 2008-05-08

Site Id: 397494  
Affiliation Type: Emergency Contact  
Company Name: ALL STAR CAR WASH  
Contact Type: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA AUTO WASH (Continued)**

**U004122400**

Contact Name: VINNY MISURACA  
Address1: Not reported  
Address2: Not reported  
City: Not reported  
State: NN  
Zip Code: Not reported  
Country Code: 999  
Phone: Not reported  
EMail: Not reported  
Fax Number: Not reported  
Modified By: njacampo  
Date Last Modified: 2008-05-08

**Tank Info:**

Tank Number: 4  
Tank Id: 222869  
Material Code: 0022  
Common Name of Substance: Waste Oil/Used Oil

**Equipment Records:**

I04 - Overfill - Product Level Gauge (A/G)  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
K00 - Spill Prevention - None  
B01 - Tank External Protection - Painted/Asphalt Coating  
A00 - Tank Internal Protection - None  
G00 - Tank Secondary Containment - None  
J00 - Dispenser - None

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Tank Converted to Non-Regulated Use  
Pipe Model: Not reported  
Install Date: Not reported  
Capacity Gallons: 275  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: njacampo  
Last Modified: 05/08/2008  
Material Name: Not reported

Tank Number: 5  
Tank Id: 222870  
Material Code: 0013  
Common Name of Substance: Lube Oil

**Equipment Records:**

H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
J02 - Dispenser - Suction Dispenser  
K00 - Spill Prevention - None  
A00 - Tank Internal Protection - None  
G00 - Tank Secondary Containment - None  
I04 - Overfill - Product Level Gauge (A/G)



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA AUTO WASH (Continued)**

**U004122400**

Tank Location: B01 - Tank External Protection - Painted/Asphalt Coating  
3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Tank Converted to Non-Regulated Use  
Pipe Model: Not reported  
Install Date: Not reported  
Capacity Gallons: 275  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: njacampo  
Last Modified: 05/08/2008  
Material Name: Not reported

Tank Number: 6  
Tank Id: 222871  
Material Code: 0013  
Common Name of Substance: Lube Oil

**Equipment Records:**

B01 - Tank External Protection - Painted/Asphalt Coating  
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)  
J02 - Dispenser - Suction Dispenser  
K00 - Spill Prevention - None  
A00 - Tank Internal Protection - None  
G00 - Tank Secondary Containment - None  
I04 - Overfill - Product Level Gauge (A/G)

Tank Location: 3  
Tank Type: Steel/Carbon Steel/Iron  
Tank Status: Tank Converted to Non-Regulated Use  
Pipe Model: Not reported  
Install Date: Not reported  
Capacity Gallons: 275  
Tightness Test Method: NN  
Date Test: Not reported  
Next Test Date: Not reported  
Date Tank Closed: Not reported  
Register: True  
Modified By: njacampo  
Last Modified: 05/08/2008  
Material Name: Not reported

**AST\_SUFFOLK:**

Region: SUFFOLK  
Site Ref#: 05486  
Status: ACTIVE  
Site Type: PBS  
Operating Permit Expires: 02/28/2018  
Owner/Storage Information: AVAILABLE

**Facility Info:**

Site Ref#: 05486  
Billing Contact: BOHEMIA AUTO WASH  
Billing Address: 4740 SOUTH SUNRISE HWY



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA AUTO WASH (Continued)**

**U004122400**

Billing Address: BOHEMIA  
Billing State: NY  
Billing Zip: 11716  
Storage Owner: BOHEMIA AUTO WASH  
Storage Owner Address: 4740 SOUTH SUNRISE HWY  
Storage Owner City: BOHEMIA  
Storage Owner State: NY  
Storage Owner Zip: 11716

**Tank Info:**

Facility ID: 05486  
Facility Reference #: Not reported  
Township: Not reported  
Tax Map No: Not reported  
Region: SUFFOLK

Tank ID: 2  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: KEROSENE  
Construction: STEEL/ IRON  
Dispenser: SUCTION  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - IN  
Tank Status: REMOVED  
Total Capacity: 275 gallons  
Date Permitted: Not reported  
Date Closed: 01/01/1986  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 3  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: WASTE OIL  
Construction: STEEL/ IRON  
Dispenser: SUCTION  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - IN  
Tank Status: IN SERVICE  
Total Capacity: 270 gallons  
Date Permitted: 03/24/1994



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA AUTO WASH (Continued)**

**U004122400**

Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: DIKE - CONCRETE  
Extrenal Protection: PAINTED / COATED  
Leak Detection: VISUAL MONITORING (ABOVEGROUND TANK)  
Overfill Prevention: - Vent Whistle  
Spill Prevention: SECONDARY CONTAINMENT  
Pipe Location: NO PIPING  
Pipe Type: NONE  
Pipe External Protection: NONE  
Pipe Containment: NONE  
Pipe Leak Detection: NONE (NON-EXEMPT)  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 4  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: MOTOR OIL  
Construction: STEEL/ IRON  
Dispenser: SUCTION  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - IN  
Tabk Status: IN SERVICE  
Total Capacity: 275 gallons  
Date Permitted: 03/24/1994  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: DIKE - CONCRETE  
Extrenal Protection: PAINTED / COATED  
Leak Detection: VISUAL MONITORING (ABOVEGROUND TANK)  
Overfill Prevention: - Vent Whistle  
Spill Prevention: SECONDARY CONTAINMENT  
Pipe Location: NO PIPING  
Pipe Type: NONE  
Pipe External Protection: NONE  
Pipe Containment: NONE  
Pipe Leak Detection: NONE (NON-EXEMPT)  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 5  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: MOTOR OIL  
Construction: STEEL/ IRON  
Dispenser: SUCTION  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - IN  
Tabk Status: IN SERVICE  
Total Capacity: 275 gallons



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOHEMIA AUTO WASH (Continued)**

**U004122400**

Date Permitted: 03/24/1994  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: DIKE - CONCRETE  
Extrenal Protection: PAINTED / COATED  
Leak Detection: VISUAL MONITORING (ABOVEGROUND TANK)  
Overfill Prevention: - Vent Whistle  
Spill Prevention: SECONDARY CONTAINMENT  
Pipe Location: NO PIPING  
Pipe Type: NONE  
Pipe External Protection: NONE  
Pipe Containment: NONE  
Pipe Leak Detection: NONE (NON-EXEMPT)  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

**44**  
**ENE**  
**1/4-1/2**  
**0.316 mi.**  
**1666 ft.**

**PAUL SCHNECBERG & SONS**  
**286 JOHNSON AVENUE**  
**SAYVILLE, NY**

**NY LTANKS S100491996**  
**N/A**

**Relative:**  
**Higher**

**LTANKS:**

**Actual:**  
**47 ft.**

Site ID: 131600  
Spill Number/Closed Date: 9209189 / 1997-03-05  
Spill Date: 1992-11-07  
Spill Cause: Tank Test Failure  
Spill Source: Commercial/Industrial  
Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: Not reported  
Cleanup Meets Standard: True  
SWIS: 5200  
Investigator: KMYAGER  
Referred To: Not reported  
Reported to Dept: 1992-11-07  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1992-11-09  
Spill Record Last Update: 1997-07-02  
Spiller Name: Not reported  
Spiller Company: PAUL SCHNECBERG & SONS  
Spiller Address: 286 JOHNSON AVENUE  
Spiller City,St,Zip: SAYVILLE, ZZ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 113384  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL SCHNECBERG & SONS (Continued)**

**S100491996**

Remarks: SOTTILE WELL "  
"30K FAILED AT -.210, BONAFIDE TESTER, WILL EXCAVATE ISOLATE AND  
RETEST"

Material:  
Site ID: 131600  
Operable Unit ID: 975891  
Operable Unit: 01  
Material ID: 406251  
Material Code: 0002A  
Material Name: #4 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:  
Site ID: 131600  
Spill Tank Test: 1540828  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: Not reported  
Test Method: Unknown

45  
ENE  
1/4-1/2  
0.404 mi.  
2135 ft.

**SAYVILLE MIDDLE SCHOOL  
291 JOHNSON AVE  
SAYVILLE, NY**

**NY LTANKS S100559897  
N/A**

**Relative:  
Higher**

LTANKS:  
Site ID: 324204  
Spill Number/Closed Date: 9303436 / 1994-02-09  
Spill Date: 1993-06-15  
Spill Cause: Tank Test Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
Cleanup Ceased: 1994-02-09  
Cleanup Meets Standard: True  
SWIS: 5228  
Investigator: T/T/F  
Referred To: Not reported  
Reported to Dept: 1993-06-15  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False

**Actual:  
48 ft.**



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAYVILLE MIDDLE SCHOOL (Continued)**

**S100559897**

UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1993-06-21  
Spill Record Last Update: 2014-08-18  
Spiller Name: TONY CRISPI BUILDINGS AND GROUND  
Spiller Company: SAYVILLE SCHOOLS  
Spiller Address: 99 GREELEY AVE  
Spiller City,St,Zip: SAYVILLE, ZZ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 261151  
DEC Memo: "NOTIFIED SCHD PASSED TANK ALONG 7/3/93 SYSTEM PASSED RETEST 7/26/93, REPLACED VENT SUPPLY AND RETURN LINES. REPLACED REMOTE FILL WITH DIRECT FILL, ~ 5 GALLONS OF CONTAMINATED SOIL PLACED ON STOCKPILE AT CHERRY AVE SCHOOL (93-03485)"  
Remarks: "15K FAILED GROSS LEAK, BONAFIDE TESTER"

**Material:**

Site ID: 324204  
Operable Unit ID: 981769  
Operable Unit: 01  
Material ID: 397010  
Material Code: 0001A  
Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Site ID: 324204  
Spill Tank Test: 1541658  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: Not reported  
Test Method: Unknown



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

46  
NE  
1/4-1/2  
0.406 mi.  
2144 ft.

**EXXON**  
**5230 SUNRISE HIGHWAY**  
**SAYVILLE, NY**

**NY LTANKS**  
**NY Spills**

**S102092153**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**51 ft.**

**LTANKS:**

Site ID: 297806  
Spill Number/Closed Date: 8607082 / 1987-03-26  
Spill Date: 1987-02-19  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station or other PBS Facility  
Spill Class: Not reported  
Cleanup Ceased: 1987-03-26  
Cleanup Meets Standard: True  
SWIS: 5228  
Investigator: JEAN-LOUIS  
Referred To: Not reported  
Reported to Dept: 1987-02-20  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 1987-02-24  
Spill Record Last Update: 2005-08-15  
Spiller Name: Not reported  
Spiller Company: EXXON  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller County: 999  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 298236  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
JEAN-LOUIS FD / / : 3/26/87 ALL 3 TANKS RETESTED ON 3/10/87.NO  
REPAIRS.6KTANKS PASSED,10K FAILED. AFTER REPAIRS ON VAPOR RECOVERY  
SYSTEMS,10K PASSED. FILE HAS BEEN DESTROYED ACCORDING TO STATE  
ARCHIVE AND RECORD ADMINISTRATOR RETENTION/DISPOSAL PROCEDURES "  
Remarks: "PROBLEM WITH VAPOR RECOVERY. 5 YEAR OLD TANKS."

**Material:**

Site ID: 297806  
Operable Unit ID: 904674  
Operable Unit: 01  
Material ID: 472616  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON (Continued)**

**S102092153**

Tank Test:

Site ID: 297806  
Spill Tank Test: 1530586  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: Not reported  
Test Method: Unknown

Site ID: 297807  
Spill Number/Closed Date: 8607524 / 1987-03-26  
Spill Date: 1987-03-10  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station or other PBS Facility  
Spill Class: Not reported  
Cleanup Ceased: 1987-03-26  
Cleanup Meets Standard: True  
SWIS: 5228  
Investigator: JEAN-LOUIS  
Referred To: Not reported  
Reported to Dept: 1987-03-10  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 1987-03-16  
Spill Record Last Update: 2005-08-12  
Spiller Name: Not reported  
Spiller Company: EXXON  
Spiller Address: Not reported  
Spiller City,St,Zip: NY  
Spiller County: 999  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 298236  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
JEAN-LOUIS FD / / : TANK TO BE UNCOVERED.3/26/87 BAD VENT LINE  
REPAIRED.TANK PASSED RETEST. FILE HAS BEEN DESTROYED ACCORDING TO  
STATE ARCHIVE AND RECORD ADMINISTRATOR RETENTION/DISPOSAL PROCEDURES"  
Remarks: "LEAK RATE -.301 GPH 10K TANK"

Material:

Site ID: 297807  
Operable Unit ID: 904112  
Operable Unit: 01  
Material ID: 473023  
Material Code: 0009



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON (Continued)**

**S102092153**

Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

**Tank Test:**

Site ID: 297807  
Spill Tank Test: 1530625  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: Not reported  
Test Method: Unknown

**SPILLS:**

Facility ID: 9210916  
Facility Type: ER  
DER Facility ID: 106199  
Site ID: 122496  
DEC Region: 1  
Spill Date: 1992-12-20  
Spill Number/Closed Date: 9210916 / 1992-12-21  
Spill Cause: Human Error  
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.  
SWIS: 5200  
Investigator: UNASSIGNED  
Referred To: Not reported  
Reported to Dept: 1992-12-21  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Affected Persons  
Cleanup Ceased: 1992-12-21  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1992-12-21  
Spill Record Last Update: 2004-09-30  
Spiller Name: Not reported  
Spiller Company: UNK  
Spiller Address: Not reported  
Spiller City,St,Zip: \*\*\*UPDATE\*\*\*, ZZ  
Spiller Company: 999  
Contact Name: Not reported  
Contact Phone: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON (Continued)**

**S102092153**

DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
NONE "

Remarks: "CUSTOMER DROVE OFF WITH NOZZLE IN TANK, FUEL LEAKED ONTO PAVED  
AREA, NO DETAILS ON CLEANUP, NO RESPONSE NEEDED"

Material:

Site ID: 122496

Operable Unit ID: 977823

Operable Unit: 01

Material ID: 404351

Material Code: 0009

Material Name: gasoline

Case No.: Not reported

Material FA: Petroleum

Quantity: 1.00

Units: Gallons

Recovered: .00

Resource Affected: Not reported

Oxygenate: Not reported

**Tank Test:**

Facility ID: 9202958

Facility Type: ER

DER Facility ID: 240942

Site ID: 297808

DEC Region: 1

Spill Date: 1992-05-29

Spill Number/Closed Date: 9202958 / 1994-12-07

Spill Cause: Unknown

Spill Class: Known release that creates potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

SWIS: 5200

Investigator: KMYAGER

Referred To: Not reported

Reported to Dept: 1992-06-10

CID: Not reported

Water Affected: Not reported

Spill Source: Gasoline Station or other PBS Facility

Spill Notifier: Local Agency

Cleanup Ceased: 1994-12-07

Cleanup Meets Std: True

Last Inspection: Not reported

Recommended Penalty: False

UST Trust: False

Remediation Phase: 0

Date Entered In Computer: 1992-06-12

Spill Record Last Update: 1997-07-01

Spiller Name: Not reported

Spiller Company: EXXON S/S

Spiller Address: Not reported

Spiller City,St,Zip: ZZ

Spiller Company: 001

Contact Name: Not reported

Contact Phone: Not reported

DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON (Continued)**

**S102092153**

DEROSA WELL "

Remarks: "SITE ASSESSMENT SHOWS: WATER AT 3,398 PPB VOC'S SOIL AT 5 PPB VOC'S"

Material:

Site ID: 297808

Operable Unit ID: 966974

Operable Unit: 01

Material ID: 410784

Material Code: 0009

Material Name: gasoline

Case No.: Not reported

Material FA: Petroleum

Quantity: .00

Units: Gallons

Recovered: .00

Resource Affected: Not reported

Oxygenate: Not reported

Tank Test:

47  
SSE  
1/4-1/2  
0.424 mi.  
2237 ft.

**GAZALOFF/P&G FUEL  
386 HILLSIDE AVENUE  
WEST SAYVILLE, NY**

**NY LTANKS S103478583  
N/A**

**Relative:  
Lower**

LTANKS:

Site ID: 77112

Spill Number/Closed Date: 9508717 / 1995-11-27

Spill Date: 1995-10-16

Spill Cause: Tank Overfill

Spill Source: Tank Truck

Spill Class: Known release with minimal potential for fire or hazard. DEC Response.  
Willing Responsible Party. Corrective action taken.

Cleanup Ceased: Not reported

Cleanup Meets Standard: True

SWIS: 5200

Investigator: SCHULZ

Referred To: Not reported

Reported to Dept: 1995-10-16

CID: 349

Water Affected: Not reported

Spill Notifier: Affected Persons

Last Inspection: Not reported

Recommended Penalty: False

UST Involvement: False

Remediation Phase: 0

Date Entered In Computer: 1995-10-16

Spill Record Last Update: 1998-09-08

Spiller Name: PHIL DOWELL

Spiller Company: P&G FUEL

Spiller Address: 500 PORTION ROAD

Spiller City,St,Zip: LAKE RONKONKOMA, NY

Spiller County: 001

Spiller Contact: GAZALOFF

Spiller Phone: (516) 589-2911

Spiller Extention: Not reported

**Actual:  
29 ft.**



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZALOFF/P&G FUEL (Continued)**

**S103478583**

DEC Region: 1  
DER Facility ID: 72000  
DEC Memo: ""  
Remarks: "OIL CAME OUT OF VENT PIPE - DRIVER WAS BY TRUCK , HOMEOWNER SAW OIL COMING OUT OF THE VENT AND YELLED TO THE DRIVER. OIL SPRAYED ON BUSHES & FLOWER BED - DRIVER & HELPER TRIED TO DIG UP SOIL BUT STILL OIL ON GROUND"

Material:  
Site ID: 77112  
Operable Unit ID: 1023070  
Operable Unit: 01  
Material ID: 359678  
Material Code: 0001A  
Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:

48  
SW  
1/4-1/2  
0.450 mi.  
2378 ft.

**BOSTI ELEMENTARY SCHOOL  
4 BOURN BLVD  
OAKDALE, NY**

**NY LTANKS S100147019  
N/A**

**Relative:  
Lower**

LTANKS:  
Site ID: 163151  
Spill Number/Closed Date: 8800135 / 1988-06-22  
Spill Date: 1988-04-05  
Spill Cause: Tank Test Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Not reported  
Cleanup Ceased: 1988-06-22  
Cleanup Meets Standard: True  
SWIS: 5228  
Investigator: KDGOERTZ  
Referred To: Not reported  
Reported to Dept: 1988-04-05  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1988-04-07  
Spill Record Last Update: 2005-06-03  
Spiller Name: Not reported  
Spiller Company: BOSTI ELEM SCHOOL  
Spiller Address: Not reported

**Actual:  
40 ft.**



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOSTI ELEMENTARY SCHOOL (Continued)**

**S100147019**

Spiller City,St,Zip: ZZ  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 137607  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
GOERTZ FD 06/22/88: TYREE RETESTED SYSTEM ON 5/23/88 AFTER TYREE  
REPLACED GASKET IN MANWAY AND SYSTEM PASSED. DEC NOT PRESENT DURING  
RETEST. FILE HAS BEEN DESTROYED ACCORDING TO STATE ARCHIVE AND RECORD  
ADMINISTRATOR RETENTION/DISPOSAL PROCEDURES "  
Remarks: "50,000 GAL TANK. NO LEAK RATE GIVEN. TYREE TESTER."

Material:  
Site ID: 163151  
Operable Unit ID: 915789  
Operable Unit: 01  
Material ID: 570943  
Material Code: 0002A  
Material Name: #4 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:  
Site ID: 163151  
Spill Tank Test: 1533573  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: Not reported  
Test Method: Unknown

49  
SSE  
1/4-1/2  
0.483 mi.  
2552 ft.

**FAIRFIELD PROPERTIES  
EAST STREET & SHERRY LANE  
BOHEMIA, NY**

**NY LTANKS S100169180  
N/A**

**Relative:  
Lower**

LTANKS:  
Site ID: 257985  
Spill Number/Closed Date: 8900985 / 1989-07-03  
Spill Date: 1989-04-14  
Spill Cause: Tank Test Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Not reported  
Cleanup Ceased: 1989-07-03  
Cleanup Meets Standard: True

**Actual:  
29 ft.**



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRFIELD PROPERTIES (Continued)**

**S100169180**

SWIS: 5228  
Investigator: AYLEUNG  
Referred To: Not reported  
Reported to Dept: 1989-05-01  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Health Department  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1989-05-03  
Spill Record Last Update: 2006-04-24  
Spiller Name: Not reported  
Spiller Company: FAIRFIELD PROPERTIES  
Spiller Address: EASY STREET & SHERRY LANE  
Spiller City,St,Zip: BOHEMIA, NY  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 211233  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
LEUNG FD 07/03/89: ALL TANKS PASSED SYSTEM RETEST. ALL 3 TANKS MAN  
WAY. VENT LINE AND OIL LINE WERE BLEED PRIOR TO RETEST. FILE HAS BEEN  
DESTROYED ACCORDING TO STATE ARCHIVE AND RECORD ADMINISTRATOR  
RETENTION/DISPOSAL PROCEDURES"  
Remarks: "3-1K TANKS TEST RUN NOT LONG ENOUGH.DID NOT KNOW OF TANK FAILURE  
UNTIL LETTER WAS RECEIVED FROM H.D.ALL TANKS PASSED RETEST."

Material:  
Site ID: 257985  
Operable Unit ID: 927122  
Operable Unit: 01  
Material ID: 452301  
Material Code: 0001A  
Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: Gallons  
Recovered: .00  
Resource Affected: Not reported  
Oxygenate: Not reported

Tank Test:  
Site ID: 257985  
Spill Tank Test: 1535407  
Tank Number: Not reported  
Tank Size: 0  
Test Method: 00  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRFIELD PROPERTIES (Continued)**

**S100169180**

Test Method: Unknown



Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BOHEMIA	1003864248	LINCOLN AVENUE	LINCOLN AV. BETWEEN (CHURCH ST	11716	SEMS-ARCHIVE, PRP
BOHEMIA	S105972405	S.C.W.A. WELLFIELD - BOHEMIA	LOCUST AVENUE	11716	NY SHWS
SAYVILLE	A100383286	ISLAND HILLS GOLF CLUB	CR 93 LAKELAND AVE	11782	NY AST
SAYVILLE	U004199926	ISLAND HILLS GOLF CLUB	CR 93 LAKELAND AVE	11782	NY UST



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 07/07/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/16/2017
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 07/07/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/16/2017
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ***Federal Delisted NPL site list***

#### Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 07/07/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/16/2017
	Data Release Frequency: Quarterly

### ***Federal CERCLIS list***

#### FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 07/07/2017
Number of Days to Update: 92	Next Scheduled EDR Contact: 10/16/2017
	Data Release Frequency: Varies

#### SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/07/2017	Source: EPA
Date Data Arrived at EDR: 04/19/2017	Telephone: 800-424-9346
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/21/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/30/2017
	Data Release Frequency: Quarterly

### ***Federal CERCLIS NFRAP site list***

#### SEMS-ARCHIVE: Superfund Enterprise Management System Archive



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 02/07/2017	Source: EPA
Date Data Arrived at EDR: 04/19/2017	Telephone: 800-424-9346
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/28/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/30/2017
	Data Release Frequency: Quarterly

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016	Source: EPA
Date Data Arrived at EDR: 12/28/2016	Telephone: 800-424-9346
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 08/11/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 10/09/2017
	Data Release Frequency: Quarterly

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: (212) 637-3660
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 08/11/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 10/09/2017
	Data Release Frequency: Quarterly

### ***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: (212) 637-3660
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 08/11/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 10/09/2017
	Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: (212) 637-3660
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 08/11/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 10/09/2017
	Data Release Frequency: Quarterly

### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: (212) 637-3660
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 08/11/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 10/09/2017
	Data Release Frequency: Varies

### ***Federal institutional controls / engineering controls registries***

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/28/2016	Source: Department of the Navy
Date Data Arrived at EDR: 01/04/2017	Telephone: 843-820-7326
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 08/10/2017
Number of Days to Update: 93	Next Scheduled EDR Contact: 11/27/2017
	Data Release Frequency: Varies

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/28/2017	Telephone: 703-603-0695
Date Made Active in Reports: 06/09/2017	Last EDR Contact: 08/30/2017
Number of Days to Update: 101	Next Scheduled EDR Contact: 12/11/2017
	Data Release Frequency: Varies

#### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/28/2017	Telephone: 703-603-0695
Date Made Active in Reports: 06/09/2017	Last EDR Contact: 08/30/2017
Number of Days to Update: 101	Next Scheduled EDR Contact: 12/11/2017
	Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016

Date Data Arrived at EDR: 09/29/2016

Date Made Active in Reports: 11/11/2016

Number of Days to Update: 43

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 06/28/2017

Next Scheduled EDR Contact: 10/09/2017

Data Release Frequency: Annually

## ***State- and tribal - equivalent CERCLIS***

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 05/16/2017

Date Data Arrived at EDR: 05/18/2017

Date Made Active in Reports: 08/10/2017

Number of Days to Update: 84

Source: Department of Environmental Conservation

Telephone: 518-402-9622

Last EDR Contact: 08/17/2017

Next Scheduled EDR Contact: 11/27/2017

Data Release Frequency: Annually

VAPOR REOPENED: Vapor Intrusion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 06/01/2016

Date Data Arrived at EDR: 08/19/2016

Date Made Active in Reports: 01/05/2017

Number of Days to Update: 139

Source: Department of Environmental Conservation

Telephone: 518-402-9814

Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 11/27/2017

Data Release Frequency: Varies

## ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/04/2017

Date Data Arrived at EDR: 01/10/2017

Date Made Active in Reports: 02/13/2017

Number of Days to Update: 34

Source: Department of Environmental Conservation

Telephone: 518-457-2051

Last EDR Contact: 06/29/2017

Next Scheduled EDR Contact: 10/16/2017

Data Release Frequency: Semi-Annually

## ***State and tribal leaking storage tank lists***

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016

Date Data Arrived at EDR: 01/26/2017

Date Made Active in Reports: 05/05/2017

Number of Days to Update: 99

Source: EPA Region 8

Telephone: 303-312-6271

Last EDR Contact: 07/27/2017

Next Scheduled EDR Contact: 11/08/2017

Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 01/26/2017	Telephone: 312-886-7439
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Varies

### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/26/2017	Telephone: 206-553-2857
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Quarterly

### INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/06/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/26/2017	Telephone: 415-972-3372
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Quarterly

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016	Source: EPA Region 7
Date Data Arrived at EDR: 01/26/2017	Telephone: 913-551-7003
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Varies

### INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/14/2016	Source: EPA Region 1
Date Data Arrived at EDR: 01/26/2017	Telephone: 617-918-1313
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Varies

### INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016	Source: EPA Region 4
Date Data Arrived at EDR: 01/27/2017	Telephone: 404-562-8677
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/28/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Semi-Annually

### INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016	Source: EPA Region 6
Date Data Arrived at EDR: 01/26/2017	Telephone: 214-665-6597
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Varies



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 05/16/2017	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/18/2017	Telephone: 518-402-9549
Date Made Active in Reports: 08/09/2017	Last EDR Contact: 08/17/2017
Number of Days to Update: 83	Next Scheduled EDR Contact: 11/27/2017
	Data Release Frequency: Varies

### HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 07/08/2005	Telephone: 518-402-9549
Date Made Active in Reports: 07/14/2005	Last EDR Contact: 07/07/2005
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### **State and tribal registered storage tank lists**

#### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/14/2017
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/23/2017
	Data Release Frequency: Varies

#### UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 12/28/2016	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 12/28/2016	Telephone: 518-402-9549
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/29/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 10/09/2017
	Data Release Frequency: No Update Planned

#### CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002	Source: NYSDEC
Date Data Arrived at EDR: 02/20/2002	Telephone: 518-402-9549
Date Made Active in Reports: 03/22/2002	Last EDR Contact: 10/24/2005
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/23/2006
	Data Release Frequency: No Update Planned

#### MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002	Source: NYSDEC
Date Data Arrived at EDR: 02/20/2002	Telephone: 518-402-9549
Date Made Active in Reports: 03/22/2002	Last EDR Contact: 07/25/2005
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/24/2005
	Data Release Frequency: No Update Planned



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### CBS: Chemical Bulk Storage Site Listing

These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 12/28/2016  
Date Data Arrived at EDR: 12/28/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 44

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 06/29/2017  
Next Scheduled EDR Contact: 10/09/2017  
Data Release Frequency: Quarterly

### MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 12/28/2016  
Date Data Arrived at EDR: 12/28/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 44

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 06/29/2017  
Next Scheduled EDR Contact: 10/09/2017  
Data Release Frequency: Quarterly

### AST: Petroleum Bulk Storage

Registered Aboveground Storage Tanks.

Date of Government Version: 12/28/2016  
Date Data Arrived at EDR: 12/28/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 44

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 06/29/2017  
Next Scheduled EDR Contact: 10/09/2017  
Data Release Frequency: No Update Planned

### CBS AST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 02/20/2002  
Date Made Active in Reports: 03/22/2002  
Number of Days to Update: 30

Source: NYSDEC  
Telephone: 518-402-9549  
Last EDR Contact: 07/25/2005  
Next Scheduled EDR Contact: 10/24/2005  
Data Release Frequency: No Update Planned

### MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 02/20/2002  
Date Made Active in Reports: 03/22/2002  
Number of Days to Update: 30

Source: NYSDEC  
Telephone: 518-402-9549  
Last EDR Contact: 07/25/2005  
Next Scheduled EDR Contact: 10/24/2005  
Data Release Frequency: No Update Planned

### INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016  
Date Data Arrived at EDR: 01/26/2017  
Date Made Active in Reports: 05/05/2017  
Number of Days to Update: 99

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 07/27/2017  
Next Scheduled EDR Contact: 11/08/2017  
Data Release Frequency: Semi-Annually



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/01/2016	Source: EPA Region 7
Date Data Arrived at EDR: 01/26/2017	Telephone: 913-551-7003
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Varies

### INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016	Source: EPA Region 9
Date Data Arrived at EDR: 01/26/2017	Telephone: 415-972-3368
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Quarterly

### INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016	Source: EPA Region 4
Date Data Arrived at EDR: 01/27/2017	Telephone: 404-562-9424
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/28/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Semi-Annually

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 11/14/2016	Source: EPA, Region 1
Date Data Arrived at EDR: 01/26/2017	Telephone: 617-918-1313
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Varies

### INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/14/2017	Source: EPA Region 5
Date Data Arrived at EDR: 01/26/2017	Telephone: 312-886-6136
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Varies

### INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/26/2017	Telephone: 206-553-2857
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/17/2016	Source: EPA Region 8
Date Data Arrived at EDR: 01/26/2017	Telephone: 303-312-6137
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Quarterly

### TANKS: Storage Tank Facility Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 12/28/2016	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 12/28/2016	Telephone: 518-402-9543
Date Made Active in Reports: 02/13/2017	Last EDR Contact: 06/29/2017
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/09/2017
	Data Release Frequency: Quarterly

### ***State and tribal institutional control / engineering control registries***

#### RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010	Source: NYC Department of City Planning
Date Data Arrived at EDR: 06/30/2014	Telephone: 212-720-3401
Date Made Active in Reports: 07/21/2014	Last EDR Contact: 06/23/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/02/2017
	Data Release Frequency: Varies

#### ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 11/23/2016	Source: New York City Department of City Planning
Date Data Arrived at EDR: 12/21/2016	Telephone: 212-720-3300
Date Made Active in Reports: 02/13/2017	Last EDR Contact: 06/20/2017
Number of Days to Update: 54	Next Scheduled EDR Contact: 10/02/2017
	Data Release Frequency: Varies

#### ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 05/16/2017	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/18/2017	Telephone: 518-402-9553
Date Made Active in Reports: 08/10/2017	Last EDR Contact: 08/17/2017
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/27/2017
	Data Release Frequency: Quarterly

#### INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/16/2017  
Date Data Arrived at EDR: 05/18/2017  
Date Made Active in Reports: 08/10/2017  
Number of Days to Update: 84

Source: Department of Environmental Conservation  
Telephone: 518-402-9553  
Last EDR Contact: 08/17/2017  
Next Scheduled EDR Contact: 11/27/2017  
Data Release Frequency: Quarterly

### **State and tribal voluntary cleanup sites**

VCP NYC: Voluntary Cleanup Program Listing NYC  
New York City voluntary cleanup program sites.

Date of Government Version: 12/19/2016  
Date Data Arrived at EDR: 12/20/2016  
Date Made Active in Reports: 05/12/2017  
Number of Days to Update: 143

Source: New York City Office of Environmental Protection  
Telephone: 212-788-8841  
Last EDR Contact: 06/19/2017  
Next Scheduled EDR Contact: 10/02/2017  
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015  
Date Data Arrived at EDR: 09/29/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 142

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 06/27/2017  
Next Scheduled EDR Contact: 10/09/2017  
Data Release Frequency: Varies

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 05/16/2017  
Date Data Arrived at EDR: 05/18/2017  
Date Made Active in Reports: 08/10/2017  
Number of Days to Update: 84

Source: Department of Environmental Conservation  
Telephone: 518-402-9711  
Last EDR Contact: 08/17/2017  
Next Scheduled EDR Contact: 11/27/2017  
Data Release Frequency: Semi-Annually

### **State and tribal Brownfields sites**

BROWNFIELDS: Brownfields Site List

A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 05/16/2017  
Date Data Arrived at EDR: 05/18/2017  
Date Made Active in Reports: 08/10/2017  
Number of Days to Update: 84

Source: Department of Environmental Conservation  
Telephone: 518-402-9764  
Last EDR Contact: 08/17/2017  
Next Scheduled EDR Contact: 11/27/2017  
Data Release Frequency: Semi-Annually



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ERP: Environmental Restoration Program Listing

In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a \$200 million Environmental Restoration or Brownfields Fund as part of the \$1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 05/16/2017  
Date Data Arrived at EDR: 05/18/2017  
Date Made Active in Reports: 08/10/2017  
Number of Days to Update: 84

Source: Department of Environmental Conservation  
Telephone: 518-402-9622  
Last EDR Contact: 08/17/2017  
Next Scheduled EDR Contact: 11/27/2017  
Data Release Frequency: Quarterly

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

##### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017  
Date Data Arrived at EDR: 03/02/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 36

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 06/20/2017  
Next Scheduled EDR Contact: 10/02/2017  
Data Release Frequency: Semi-Annually

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

##### SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 01/04/2017  
Date Data Arrived at EDR: 01/10/2017  
Date Made Active in Reports: 02/13/2017  
Number of Days to Update: 34

Source: Department of Environmental Conservation  
Telephone: 518-402-8705  
Last EDR Contact: 06/29/2017  
Next Scheduled EDR Contact: 10/16/2017  
Data Release Frequency: Semi-Annually

##### SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006  
Date Data Arrived at EDR: 11/15/2006  
Date Made Active in Reports: 11/30/2006  
Number of Days to Update: 15

Source: Department of Environmental Conservation  
Telephone: 518-402-8694  
Last EDR Contact: 06/12/2017  
Next Scheduled EDR Contact: 09/25/2017  
Data Release Frequency: Annually

##### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 08/01/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: Varies



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 07/24/2017  
Next Scheduled EDR Contact: 11/08/2017  
Data Release Frequency: No Update Planned

### IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 08/29/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: Varies

### **Local Lists of Hazardous waste / Contaminated Sites**

#### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/09/2017  
Date Data Arrived at EDR: 03/08/2017  
Date Made Active in Reports: 06/09/2017  
Number of Days to Update: 93

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/30/2017  
Next Scheduled EDR Contact: 12/11/2017  
Data Release Frequency: No Update Planned

#### DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 11/14/2016  
Date Data Arrived at EDR: 11/16/2016  
Date Made Active in Reports: 01/04/2017  
Number of Days to Update: 49

Source: Department of Environmental Conservation  
Telephone: 518-402-9622  
Last EDR Contact: 08/17/2017  
Next Scheduled EDR Contact: 11/27/2017  
Data Release Frequency: Annually

#### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/09/2017  
Date Data Arrived at EDR: 03/08/2017  
Date Made Active in Reports: 06/09/2017  
Number of Days to Update: 93

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/30/2017  
Next Scheduled EDR Contact: 12/11/2017  
Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **Local Lists of Registered Storage Tanks**

### **HIST UST: Historical Petroleum Bulk Storage Database**

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 06/02/2006  
Date Made Active in Reports: 07/20/2006  
Number of Days to Update: 48

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 10/23/2006  
Next Scheduled EDR Contact: 01/22/2007  
Data Release Frequency: Varies

### **HIST AST: Historical Petroleum Bulk Storage Database**

These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 06/02/2006  
Date Made Active in Reports: 07/20/2006  
Number of Days to Update: 48

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 10/23/2006  
Next Scheduled EDR Contact: 01/22/2007  
Data Release Frequency: No Update Planned

## **Local Land Records**

### **LIENS: Spill Liens Information**

Lien information from the Oil Spill Fund.

Date of Government Version: 12/29/2016  
Date Data Arrived at EDR: 12/30/2016  
Date Made Active in Reports: 02/13/2017  
Number of Days to Update: 45

Source: Office of the State Comptroller  
Telephone: 518-474-9034  
Last EDR Contact: 08/07/2017  
Next Scheduled EDR Contact: 11/20/2017  
Data Release Frequency: Varies

### **LIENS 2: CERCLA Lien Information**

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014  
Date Data Arrived at EDR: 03/18/2014  
Date Made Active in Reports: 04/24/2014  
Number of Days to Update: 37

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 07/26/2017  
Next Scheduled EDR Contact: 11/08/2017  
Data Release Frequency: Varies

## **Records of Emergency Release Reports**

### **HMIRS: Hazardous Materials Information Reporting System**

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016  
Date Data Arrived at EDR: 12/28/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 37

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 06/28/2017  
Next Scheduled EDR Contact: 10/09/2017  
Data Release Frequency: Annually

### **SPIILLS: Spills Information Database**

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/16/2017  
Date Data Arrived at EDR: 05/18/2017  
Date Made Active in Reports: 08/09/2017  
Number of Days to Update: 83

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 08/17/2017  
Next Scheduled EDR Contact: 11/27/2017  
Data Release Frequency: Varies

### HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 07/08/2005  
Date Made Active in Reports: 07/14/2005  
Number of Days to Update: 6

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 07/07/2005  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012  
Date Data Arrived at EDR: 01/03/2013  
Date Made Active in Reports: 02/12/2013  
Number of Days to Update: 40

Source: FirstSearch  
Telephone: N/A  
Last EDR Contact: 01/03/2013  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010  
Date Data Arrived at EDR: 01/03/2013  
Date Made Active in Reports: 03/07/2013  
Number of Days to Update: 63

Source: FirstSearch  
Telephone: N/A  
Last EDR Contact: 01/03/2013  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### **Other Ascertainable Records**

#### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016  
Date Data Arrived at EDR: 12/28/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 44

Source: Environmental Protection Agency  
Telephone: (212) 637-3660  
Last EDR Contact: 08/11/2017  
Next Scheduled EDR Contact: 10/09/2017  
Data Release Frequency: Varies

#### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/31/2015  
Date Data Arrived at EDR: 07/08/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 08/25/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 07/12/2017  
Next Scheduled EDR Contact: 10/23/2017  
Data Release Frequency: Semi-Annually

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 07/14/2017  
Next Scheduled EDR Contact: 10/23/2017  
Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017  
Date Data Arrived at EDR: 02/03/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 63

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 11/27/2017  
Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/13/2017  
Date Data Arrived at EDR: 02/15/2017  
Date Made Active in Reports: 05/12/2017  
Number of Days to Update: 86

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 08/11/2017  
Next Scheduled EDR Contact: 10/09/2017  
Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 08/07/2017  
Next Scheduled EDR Contact: 11/20/2017  
Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013  
Date Data Arrived at EDR: 03/03/2015  
Date Made Active in Reports: 03/09/2015  
Number of Days to Update: 6

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 08/24/2017  
Next Scheduled EDR Contact: 11/20/2017  
Data Release Frequency: Varies

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 01/15/2015  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 14

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 06/21/2017  
Next Scheduled EDR Contact: 10/02/2017  
Data Release Frequency: Every 4 Years

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 11/24/2015  
Date Made Active in Reports: 04/05/2016  
Number of Days to Update: 133

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 08/23/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 07/28/2017  
Next Scheduled EDR Contact: 11/08/2017  
Data Release Frequency: Annually

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013  
Date Data Arrived at EDR: 12/12/2013  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 74

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 09/08/2017  
Next Scheduled EDR Contact: 12/18/2017  
Data Release Frequency: Annually



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/09/2017	Telephone: 202-564-8600
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 07/24/2017
Number of Days to Update: 57	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Varies

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 08/08/2017
Number of Days to Update: 3	Next Scheduled EDR Contact: 11/20/2017
	Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016	Source: EPA
Date Data Arrived at EDR: 04/28/2016	Telephone: 202-566-0500
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 04/10/2017
Number of Days to Update: 127	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Annually

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 07/28/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/23/2017
	Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Quarterly

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016  
Date Data Arrived at EDR: 09/08/2016  
Date Made Active in Reports: 10/21/2016  
Number of Days to Update: 43

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 08/01/2017  
Next Scheduled EDR Contact: 11/20/2017  
Data Release Frequency: Quarterly

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 09/08/2017  
Next Scheduled EDR Contact: 12/18/2017  
Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 09/08/2017  
Next Scheduled EDR Contact: 12/18/2017  
Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011  
Date Data Arrived at EDR: 10/19/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 83

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 07/28/2017  
Next Scheduled EDR Contact: 11/08/2017  
Data Release Frequency: Varies

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/04/2017  
Date Data Arrived at EDR: 01/06/2017  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 35

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 07/12/2017  
Next Scheduled EDR Contact: 10/16/2017  
Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 08/01/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2016  
Date Data Arrived at EDR: 11/18/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 06/21/2017  
Next Scheduled EDR Contact: 10/09/2017  
Data Release Frequency: Varies

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 09/30/2015  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 08/25/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Biennially



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 07/11/2017
Number of Days to Update: 546	Next Scheduled EDR Contact: 10/23/2017
	Data Release Frequency: Semi-Annually

### FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016	Source: Department of Energy
Date Data Arrived at EDR: 12/27/2016	Telephone: 202-586-3559
Date Made Active in Reports: 02/17/2017	Last EDR Contact: 08/03/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/20/2017
	Data Release Frequency: Varies

### UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 08/22/2017
Number of Days to Update: 146	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Varies

### LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8787
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 07/07/2017
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/16/2017
	Data Release Frequency: Varies

### LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 08/11/2017  
Next Scheduled EDR Contact: 10/09/2017  
Data Release Frequency: Annually

### US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 08/11/2017  
Next Scheduled EDR Contact: 10/09/2017  
Data Release Frequency: Annually

### US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017  
Date Data Arrived at EDR: 02/28/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 08/30/2017  
Next Scheduled EDR Contact: 12/11/2017  
Data Release Frequency: Semi-Annually

### US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 09/01/2017  
Next Scheduled EDR Contact: 12/11/2017  
Data Release Frequency: Varies

### US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 09/01/2017  
Next Scheduled EDR Contact: 12/11/2017  
Data Release Frequency: Varies

### ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017  
Date Data Arrived at EDR: 03/17/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 21

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 09/07/2017  
Next Scheduled EDR Contact: 12/25/2017  
Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/04/2017	Source: EPA
Date Data Arrived at EDR: 04/07/2017	Telephone: (212) 637-3000
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 09/06/2017
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/18/2017
	Data Release Frequency: Quarterly

### DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/24/2017
Number of Days to Update: 91	Next Scheduled EDR Contact: 12/11/2017
	Data Release Frequency: Varies

### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 07/17/2017
Number of Days to Update: 67	Next Scheduled EDR Contact: 10/30/2017
	Data Release Frequency: Varies

### ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2017	Telephone: 202-564-2280
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 09/06/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 12/18/2017
	Data Release Frequency: Quarterly

### FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017	Source: EPA
Date Data Arrived at EDR: 02/22/2017	Telephone: 800-385-6164
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 08/17/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

### AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 11/09/2016	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 11/18/2016	Telephone: 518-402-8452
Date Made Active in Reports: 01/04/2017	Last EDR Contact: 07/24/2017
Number of Days to Update: 47	Next Scheduled EDR Contact: 11/08/2017
	Data Release Frequency: Annually



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 01/04/2017

Date Data Arrived at EDR: 01/10/2017

Date Made Active in Reports: 02/10/2017

Number of Days to Update: 31

Source: Department of Environmental Conservation

Telephone: 518-402-8660

Last EDR Contact: 06/29/2017

Next Scheduled EDR Contact: 10/16/2017

Data Release Frequency: Varies

### DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 10/27/2016

Date Data Arrived at EDR: 01/10/2017

Date Made Active in Reports: 02/10/2017

Number of Days to Update: 31

Source: Department of Environmental Conservation

Telephone: 518-402-8403

Last EDR Contact: 09/08/2017

Next Scheduled EDR Contact: 12/25/2017

Data Release Frequency: Varies

### E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 11/08/2016

Date Data Arrived at EDR: 12/27/2016

Date Made Active in Reports: 02/13/2017

Number of Days to Update: 48

Source: New York City Department of City Planning

Telephone: 718-595-6658

Last EDR Contact: 06/20/2017

Next Scheduled EDR Contact: 10/02/2017

Data Release Frequency: Varies

### Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 01/03/2017

Date Data Arrived at EDR: 01/04/2017

Date Made Active in Reports: 02/13/2017

Number of Days to Update: 40

Source: Department of Environmental Conservation

Telephone: 518-402-8660

Last EDR Contact: 06/29/2017

Next Scheduled EDR Contact: 10/16/2017

Data Release Frequency: Quarterly

### Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/01/2015

Date Data Arrived at EDR: 12/29/2015

Date Made Active in Reports: 02/11/2016

Number of Days to Update: 44

Source: Department of Environmental Conservation

Telephone: 518-402-8712

Last EDR Contact: 09/08/2017

Next Scheduled EDR Contact: 12/25/2017

Data Release Frequency: Varies

### HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2003  
Date Data Arrived at EDR: 10/20/2006  
Date Made Active in Reports: 11/30/2006  
Number of Days to Update: 41

Source: Department of Environmental Conservation  
Telephone: 518-402-9564  
Last EDR Contact: 05/26/2009  
Next Scheduled EDR Contact: 08/24/2009  
Data Release Frequency: No Update Planned

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/30/2017  
Date Data Arrived at EDR: 02/01/2017  
Date Made Active in Reports: 02/13/2017  
Number of Days to Update: 12

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 08/03/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: Annually

### SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 01/30/2017  
Date Data Arrived at EDR: 02/03/2017  
Date Made Active in Reports: 02/22/2017  
Number of Days to Update: 19

Source: Department of Environmental Conservation  
Telephone: 518-402-8233  
Last EDR Contact: 07/24/2017  
Next Scheduled EDR Contact: 11/08/2017  
Data Release Frequency: No Update Planned

### UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 12/05/2016  
Date Data Arrived at EDR: 12/08/2016  
Date Made Active in Reports: 02/13/2017  
Number of Days to Update: 67

Source: Department of Environmental Conservation  
Telephone: 518-402-8056  
Last EDR Contact: 09/08/2017  
Next Scheduled EDR Contact: 12/18/2017  
Data Release Frequency: Quarterly

## EDR HIGH RISK HISTORICAL RECORDS

### ***EDR Exclusive Records***

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

### EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/30/2013  
Number of Days to Update: 182

Source: Department of Environmental Conservation  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/10/2014  
Number of Days to Update: 193

Source: Department of Environmental Conservation  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

### COUNTY RECORDS

#### CORTLAND COUNTY:

##### Cortland County Storage Tank Listing

A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 11/25/2016  
Date Data Arrived at EDR: 12/02/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 70

Source: Cortland County Health Department  
Telephone: 607-753-5035  
Last EDR Contact: 07/31/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Cortland County Storage Tank Listing

A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 11/25/2016  
Date Data Arrived at EDR: 12/02/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 70

Source: Cortland County Health Department  
Telephone: 607-753-5035  
Last EDR Contact: 07/31/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: Quarterly

### NASSAU COUNTY:

#### Registered Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017  
Date Data Arrived at EDR: 01/11/2017  
Date Made Active in Reports: 02/15/2017  
Number of Days to Update: 35

Source: Nassau County Health Department  
Telephone: 516-571-3314  
Last EDR Contact: 09/08/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: No Update Planned

#### Storage Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011  
Date Data Arrived at EDR: 02/23/2011  
Date Made Active in Reports: 03/29/2011  
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal  
Telephone: 516-572-1000  
Last EDR Contact: 07/31/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: Varies

#### Registered Tank Database in Nassau County

A listing of facilities in Nassau County with storage tanks.

Date of Government Version: 01/09/2017  
Date Data Arrived at EDR: 01/11/2017  
Date Made Active in Reports: 02/15/2017  
Number of Days to Update: 35

Source: Nassau County Department of Health  
Telephone: 516-227-9691  
Last EDR Contact: 09/08/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: Varies

#### Registered Tank Database

A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017  
Date Data Arrived at EDR: 01/11/2017  
Date Made Active in Reports: 02/15/2017  
Number of Days to Update: 35

Source: Nassau County Health Department  
Telephone: 516-571-3314  
Last EDR Contact: 09/08/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: No Update Planned

#### Storage Tank Database

A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011  
Date Data Arrived at EDR: 02/23/2011  
Date Made Active in Reports: 03/29/2011  
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal  
Telephone: 516-572-1000  
Last EDR Contact: 07/31/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: Varies

### ROCKLAND COUNTY:



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Petroleum Bulk Storage Database

A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 12/20/2016  
Date Data Arrived at EDR: 12/21/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 51

Source: Rockland County Health Department  
Telephone: 914-364-2605  
Last EDR Contact: 08/31/2017  
Next Scheduled EDR Contact: 12/18/2017  
Data Release Frequency: Quarterly

### Petroleum Bulk Storage Database

A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 12/20/2016  
Date Data Arrived at EDR: 12/21/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 51

Source: Rockland County Health Department  
Telephone: 914-364-2605  
Last EDR Contact: 08/31/2017  
Next Scheduled EDR Contact: 12/18/2017  
Data Release Frequency: Quarterly

### SUFFOLK COUNTY:

#### Storage Tank Database

A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015  
Date Data Arrived at EDR: 03/10/2015  
Date Made Active in Reports: 03/23/2015  
Number of Days to Update: 13

Source: Suffolk County Department of Health Services  
Telephone: 631-854-2521  
Last EDR Contact: 09/08/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: No Update Planned

#### Storage Tank Database

A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015  
Date Data Arrived at EDR: 03/10/2015  
Date Made Active in Reports: 03/23/2015  
Number of Days to Update: 13

Source: Suffolk County Department of Health Services  
Telephone: 631-854-2521  
Last EDR Contact: 09/08/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: No Update Planned

### WESTCHESTER COUNTY:

#### Listing of Storage Tanks

A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 01/13/2017  
Date Data Arrived at EDR: 01/20/2017  
Date Made Active in Reports: 02/15/2017  
Number of Days to Update: 26

Source: Westchester County Department of Health  
Telephone: 914-813-5161  
Last EDR Contact: 07/31/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: Varies

#### Listing of Storage Tanks

A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 01/13/2017  
Date Data Arrived at EDR: 01/20/2017  
Date Made Active in Reports: 02/15/2017  
Number of Days to Update: 26

Source: Westchester County Department of Health  
Telephone: 914-813-5161  
Last EDR Contact: 07/31/2017  
Next Scheduled EDR Contact: 11/13/2017  
Data Release Frequency: Varies



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013  
Date Data Arrived at EDR: 08/19/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 11/27/2017  
Data Release Frequency: No Update Planned

#### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 04/11/2017  
Date Made Active in Reports: 07/27/2017  
Number of Days to Update: 107

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 07/10/2017  
Next Scheduled EDR Contact: 10/23/2017  
Data Release Frequency: Annually

#### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 07/22/2016  
Date Made Active in Reports: 11/22/2016  
Number of Days to Update: 123

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 07/17/2017  
Next Scheduled EDR Contact: 10/30/2017  
Data Release Frequency: Annually

#### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 06/19/2015  
Date Made Active in Reports: 07/15/2015  
Number of Days to Update: 26

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 08/21/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Annually

#### VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 05/12/2017  
Date Data Arrived at EDR: 05/23/2017  
Date Made Active in Reports: 08/16/2017  
Number of Days to Update: 85

Source: Department of Environmental Conservation  
Telephone: 802-241-3443  
Last EDR Contact: 07/17/2017  
Next Scheduled EDR Contact: 10/30/2017  
Data Release Frequency: Annually

#### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 04/13/2017  
Date Made Active in Reports: 07/14/2017  
Number of Days to Update: 92

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 06/12/2017  
Next Scheduled EDR Contact: 09/25/2017  
Data Release Frequency: Annually



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

### Electric Power Transmission Line Data

Source: PennWell Corporation

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Day Care Providers

Source: Department of Health

Telephone: 212-676-2444

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Freshwater Wetlands

Source: Department of Environmental Conservation

Telephone: 518-402-8961



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map  
Source: U.S. Geological Survey

### STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.



## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

ISLAND HILLS GOLF COURSE  
LAKELAND AVE  
SAYVILLE, NY 11782

### **TARGET PROPERTY COORDINATES**

Latitude (North):	40.75413 - 40° 45' 14.87"
Longitude (West):	73.099585 - 73° 5' 58.51"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	660428.9
UTM Y (Meters):	4512989.5
Elevation:	42 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	5940617 PATCHOGUE, NY
Version Date:	2013
Southeast Map:	5940627 SAYVILLE, NY
Version Date:	2013
Southwest Map:	5940595 BAY SHORE EAST, NY
Version Date:	2013
Northwest Map:	5940555 CENTRAL ISLIP, NY
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

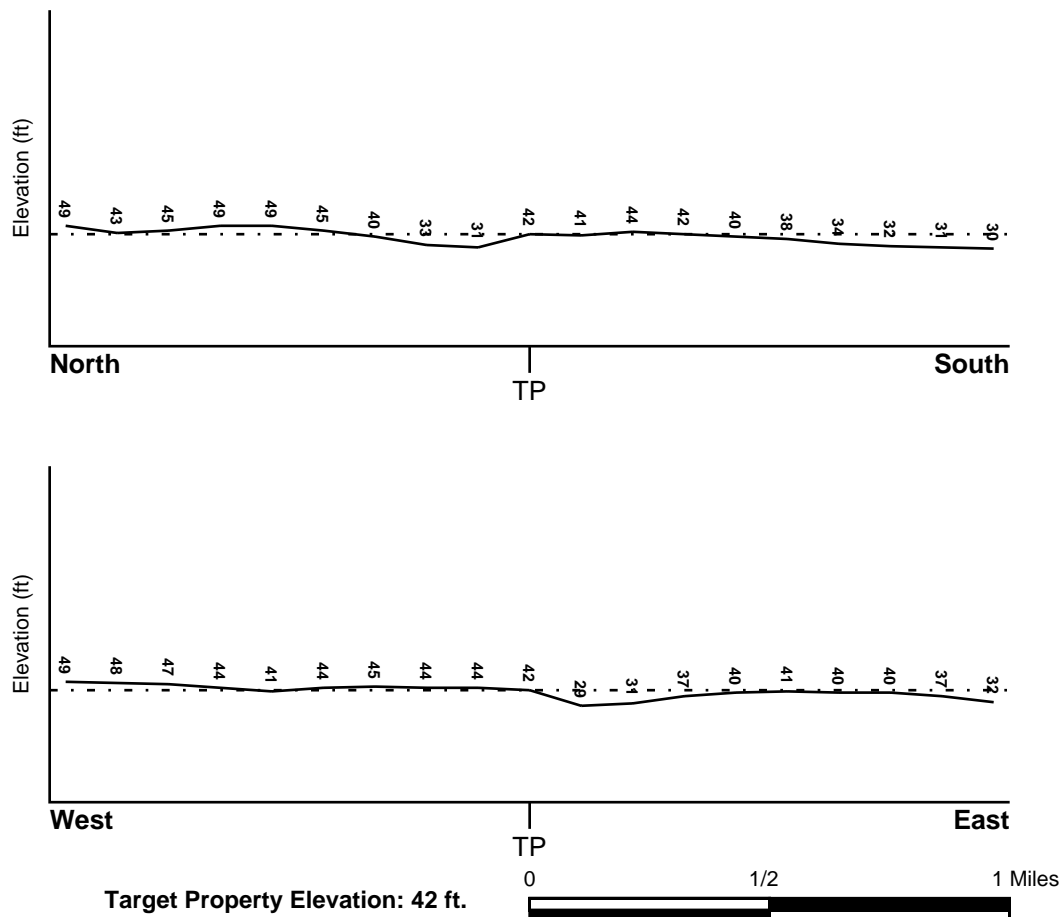
### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
36103C0688G	FEMA Q3 Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
36103C0689H	FEMA FIRM Flood data
36103C0901G	FEMA Q3 Flood data
36103C0901H	FEMA FIRM Flood data
36103C0902H	FEMA FIRM Flood data

### NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
PATCHOGUE	YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### ***Site-Specific Hydrogeological Data\*:***

Search Radius:	1.25 miles
Status:	Not found

### AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		



## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

Era:	Cenozoic
System:	Quaternary
Series:	Pleistocene
Code:	Qp (decoded above as Era, System & Series)

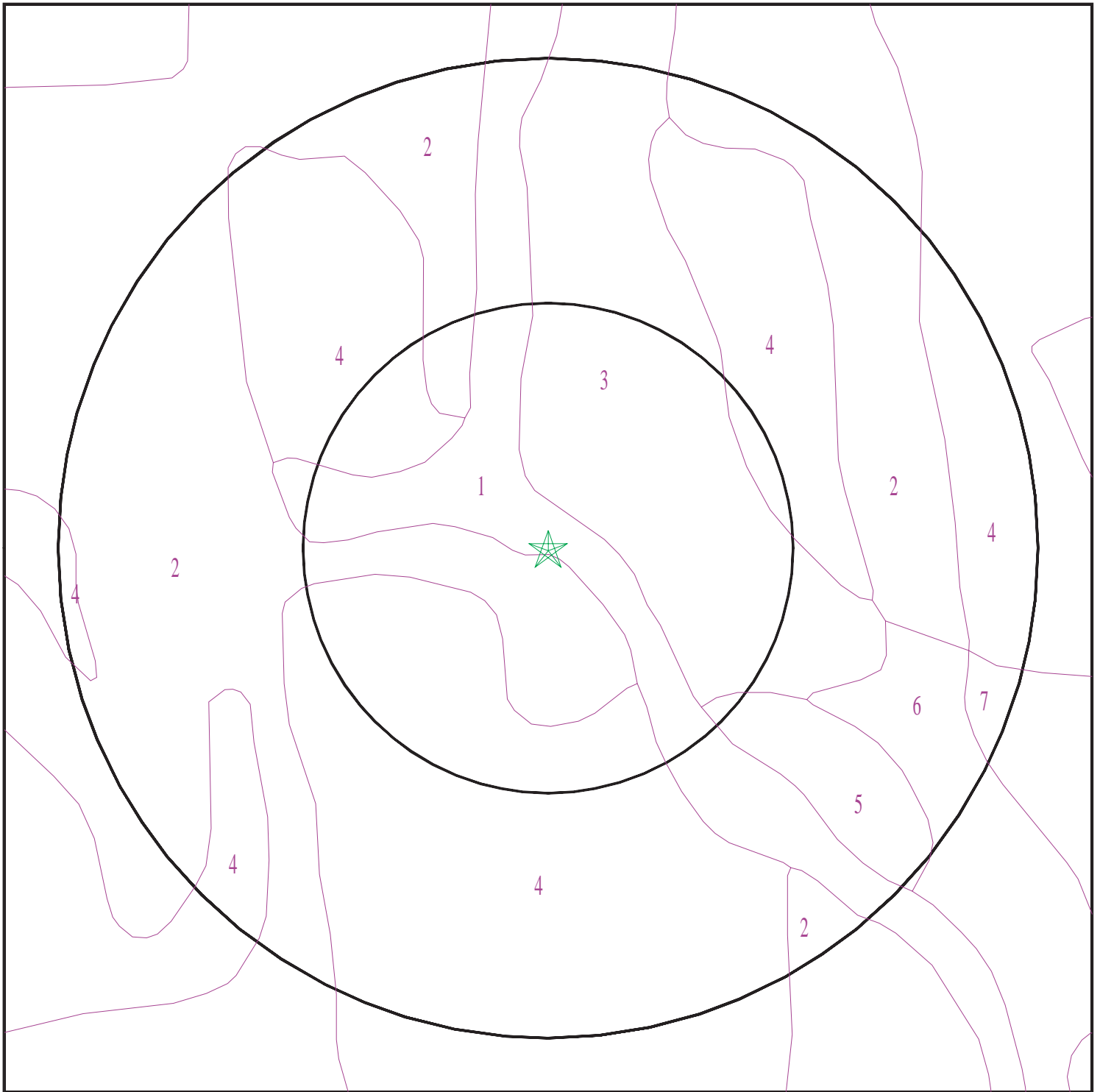
#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).



# SSURGO SOIL MAP - 5045648.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Island Hills Golf Course  
ADDRESS: Lakeland Ave  
Sayville NY 11782  
LAT/LONG: 40.75413 / 73.099585

CLIENT: Partner Engineering and Science, Inc.  
CONTACT: Angelica Seals  
INQUIRY #: 5045648.2s  
DATE: September 11, 2017 10:21 am



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

#### Soil Map ID: 1

Soil Component Name: Plymouth

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 5.5 Min: 3.6
2	3 inches	27 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 5.5 Min: 3.6
3	27 inches	59 inches	gravelly coarse sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 5.5 Min: 3.6



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 2

Soil Component Name: Haven

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	11 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	18 inches	27 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	27 inches	59 inches	stratified gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 6 Min: 4.5



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 3

Soil Component Name: Plymouth

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 5.5 Min: 3.6
2	3 inches	27 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 5.5 Min: 3.6
3	27 inches	59 inches	gravelly coarse sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 5.5 Min: 3.6



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 4

Soil Component Name: Riverhead

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 4.5
2	11 inches	27 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 4.5
3	27 inches	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 4.5
4	35 inches	64 inches	stratified coarse sand to gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 5.5 Min: 4.5



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 5

Soil Component Name: Deerfield

Soil Surface Texture: highly decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	highly decomposed plant material	A-8	Not reported	Max: 42 Min: 1.4	Max: 5.5 Min: 4.5
2	3 inches	9 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 4.5
3	9 inches	27 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 4.5
4	27 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 4.5



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 6

Soil Component Name: Cut and fill land

Soil Surface Texture: highly decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 153 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

### Soil Map ID: 7

Soil Component Name: Plymouth

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 5.5 Min: 3.6



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	3 inches	27 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 5.5 Min: 3.6
3	27 inches	59 inches	gravelly coarse sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 5.5 Min: 3.6

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000831396	1/4 - 1/2 Mile SW
2	USGS40000831435	1/2 - 1 Mile ESE
3	USGS40000831423	1/2 - 1 Mile SW
4	USGS40000831673	1/2 - 1 Mile WNW
5	USGS40000831234	1/2 - 1 Mile SSE
6	USGS40000831514	1/2 - 1 Mile East
A7	USGS40000832066	1/2 - 1 Mile NNE



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A8	USGS40000832067	1/2 - 1 Mile NNE
9	USGS40000831167	1/2 - 1 Mile SE

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

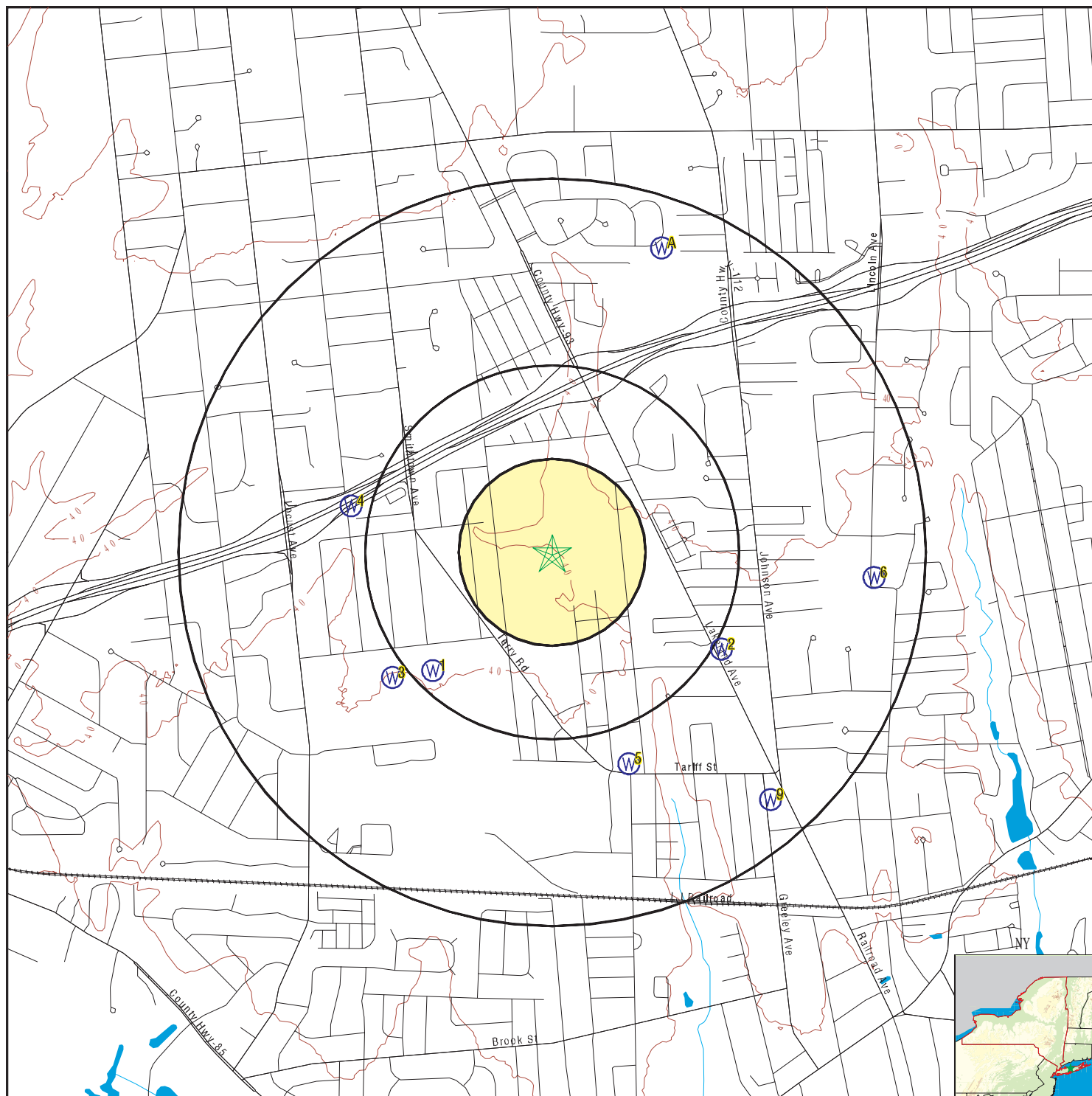
Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		



# PHYSICAL SETTING SOURCE MAP - 5045648.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Island Hills Golf Course  
 ADDRESS: Lakeland Ave  
 Sayville NY 11782  
 LAT/LONG: 40.75413 / 73.099585

CLIENT: Partner Engineering and Science, Inc.  
 CONTACT: Angelica Seals  
 INQUIRY #: 5045648.2s  
 DATE: September 11, 2017 10:21 am



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**1**  
**SW**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS USGS40000831396**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404458073062201		
Monloc name:	S 56029. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7495427
Longitude:	-73.1056674	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	42
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**2**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS USGS40000831435**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404501073052901		
Monloc name:	S 80. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.750376
Longitude:	-73.0909447	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	35.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	121
Construction date:	Not Reported	Wellholeddepth:	Not Reported
Welldepth units:	ft		
Wellholeddepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**3**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000831423**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404500073062101		
Monloc name:	S 56030. 1		
Monloc type:	Well		
Monloc desc:	LAT/LONG UPDATES FROM SIM 3066		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7492778
Longitude:	-73.1077222	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from Digital Map		
Horiz coord refs:	NAD83	Vert measure val:	44
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	19751031	Welldepth:	36
Welldepth units:	ft	Wellholeddepth:	Not Reported
Wellholeddepth units:	Not Reported		

Ground-water levels, Number of Measurements: 11

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-03-15		19.09	2003-03-17		19.46
2002-03-27		16.64	2001-03-21		18.72
2000-03-22		17.85	1999-03-23		19.25
1998-03-18		20.52	1997-03-17		19.75
1996-03-18		18.55	1995-03-16		17.61
1994-05-03		19.94			

**4**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000831673**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404521073063701		
Monloc name:	S 26059. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7559316
Longitude:	-73.1098341	Sourcemap scale:	24000



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	43.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	75
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

### 5 SSE 1/2 - 1 Mile Lower

FED USGS USGS40000831234

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404445073054600		
Monloc name:	S 30827. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7459316
Longitude:	-73.0956671	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	35.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	60
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

### 6 East 1/2 - 1 Mile Lower

FED USGS USGS40000831514

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404511073050100		
Monloc name:	S 34904. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7531538
Longitude:	-73.0831666	Sourcemap scale:	24000



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	35.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	63
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**A7**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**      **USGS40000832066**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404557073054001		
Monloc name:	S 74484. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7659316
Longitude:	-73.094	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refs:	Not Reported	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	20
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**A8**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**      **USGS40000832067**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404557073054002		
Monloc name:	S 74485. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7659316
Longitude:	-73.094	Sourcemap scale:	24000



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refs:	Not Reported	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	30
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**9**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS USGS40000831167**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404440073052001		
Monloc name:	S 3517. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7445428
Longitude:	-73.0884446	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	51.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	20
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 237

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-10-29		13.47	1958-09-29		13.16
1958-08-28		13.29	1958-07-29		13.50
1958-06-26		14.00	1958-05-27		14.65
1958-04-30		14.57	1958-03-27		14.31
1958-02-24		13.64	1958-01-28		13.81
1957-12-18		12.52	1957-11-25		12.16
1957-10-24		12.02	1957-09-24		12.12
1957-09-11		12.09	1957-07-05		12.65
1956-12-17		12.75	1956-09-28		12.76
1956-06-22		13.53	1956-05-29		13.70



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1956-04-25		14.28	1956-03-27		14.28
1956-02-27		14.04	1956-01-25		13.33
1955-12-27		13.81	1955-11-23		14.56
1955-11-01		14.32	1955-09-30		12.65
1955-08-24		13.12	1955-07-26		12.48
1955-06-24		12.85	1955-05-25		13.17
1955-04-27		13.54	1955-03-23		13.46
1955-02-21		13.33	1955-01-25		13.70
1954-12-23		13.75	1954-11-22		13.16
1954-10-27		13.06	1954-09-29		13.44
1954-08-25		12.49	1954-07-28		12.62
1954-07-01		13.06	1954-05-28		13.56
1954-04-28		13.11	1954-03-26		12.77
1954-02-26		12.55	1954-01-28		12.68
1953-12-21		12.99	1953-11-30		12.32
1953-11-02		12.22	1953-10-04		12.32
1953-09-11		12.56	1953-08-25		12.79
1953-08-04		13.00	1953-06-23		13.65
1953-05-25		14.26	1953-04-29		14.57
1953-03-30		14.29	1953-02-25		12.92
1953-02-02		12.69	1952-12-29		12.16
1952-12-03		11.98	1952-11-07		12.11
1952-09-23		12.48	1952-08-26		12.82
1952-07-22		13.07	1952-06-23		13.79
1952-05-26		13.69	1952-04-22		13.69
1952-03-25		13.95	1952-02-26		13.71
1952-01-28		13.38	1951-12-17		12.50
1951-11-27		12.47	1951-10-31		11.82
1951-09-25		11.93	1951-08-28		12.16
1951-07-26		12.39	1951-06-28		12.67
1951-06-01		13.18	1951-04-24		13.38
1951-03-27		13.29	1951-02-21		12.54
1951-01-25		12.19	1950-12-29		12.25
1950-11-27		11.81	1950-10-24		12.15
1950-09-27		12.00	1950-08-31		12.23
1950-07-24		12.45	1950-06-28		12.65
1950-05-24		12.47	1950-04-26		12.68
1950-03-29		12.54	1950-03-01		12.62
1950-02-02		12.32	1949-12-30		12.50
1949-12-04		12.22	1949-10-25		12.20
1949-10-06		12.31	1949-08-25		12.37
1949-07-27		12.62	1949-07-07		12.86
1949-05-26		13.52	1949-04-27		13.80
1949-03-28		14.02	1949-02-23		13.97
1949-01-25		13.91	1948-12-27		12.67
1948-12-01		12.54	1948-10-26		12.58
1948-10-01		13.73	1948-08-27		13.29
1948-08-03		13.67	1948-06-30		13.94
1948-06-01		13.86	1948-05-04		13.81
1948-04-01		14.00	1948-02-27		13.75
1948-02-05		12.93	1947-12-23		12.61
1947-11-25		12.70	1947-10-30		11.95
1947-10-03		12.04	1947-09-04		12.31
1947-08-04		12.54	1947-07-10		12.58
1947-06-06		12.91	1947-05-07		13.03



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1947-04-04		12.38	1947-03-04		12.25
1947-02-10		12.23	1947-01-02		12.04
1946-12-02		12.20	1946-11-01		12.45
1946-09-27		12.86	1946-09-04		13.25
1946-07-31		12.96	1946-07-05		13.42
1946-06-13		13.88	1946-05-08		12.90
1946-04-09		13.11	1946-03-06		13.20
1946-02-13		13.19	1946-01-03		12.62
1945-11-30		12.04	1945-10-30		11.92
1945-10-05		12.07	1945-09-06		12.31
1945-08-01		12.63	1945-06-27		12.95
1945-05-30		13.16	1945-05-03		12.89
1945-03-27		13.15	1945-02-28		13.24
1944-12-28		13.08	1944-11-30		12.30
1944-11-01		11.93	1944-09-29		12.18
1944-08-30		12.09	1944-07-28		12.47
1944-06-29		12.94	1944-06-01		13.46
1944-04-29		13.60	1944-03-31		13.22
1944-03-01		12.61	1944-01-31		12.73
1943-12-30		12.13	1943-11-29		12.18
1943-10-28		12.12	1943-09-24		12.21
1943-09-02		12.29	1943-08-02		12.64
1943-06-28		12.98	1943-05-29		13.05
1943-04-30		13.16	1943-03-31		13.53
1943-02-25		13.30	1943-01-30		13.11
1942-12-31		12.80	1942-11-30		12.49
1942-11-02		12.60	1942-09-28		12.95
1942-09-18		13.11	1942-09-11		13.24
1942-09-04		13.38	1942-08-28		13.55
1942-08-21		13.52	1942-08-14		12.95
1942-08-07		12.60	1942-07-31		12.64
1942-07-24		12.68	1942-07-17		12.68
1942-07-10		12.70	1942-07-06		12.79
1942-06-26		12.67	1942-06-19		12.70
1942-06-12		12.81	1942-06-05		12.68
1942-05-29		12.75	1942-05-22		12.84
1942-05-15		12.90	1942-05-08		12.98
1942-04-30		13.04	1942-04-24		13.11
1942-04-17		13.23	1942-04-10		13.37
1909-12-04		11.60	1909-11-19		11.61
1909-10-08		11.83	1909-08-12		12.27
1909-07-10		12.65	1909-06-04		13.26
1909-04-17		12.95	1909-03-22		12.77
1909-02-23		11.82	1909-01-18		11.68
1908-11-18		11.86	1908-10-13		12.02
1908-09-16		12.21	1908-08-11		12.54
1908-08-10		12.55	1908-07-03		13.05
1908-06-06		13.32	1908-04-07		13.71
1908-03-02		13.86	1908-02-04		13.66
1908-01-02		13.16	1907-12-04		12.59
1907-11-01		12.08	1907-09-09		12.40
1907-07-31		12.94	1907-06-07		13.53
1907-05-29		13.51	1907-04-26		13.63
1907-04-02		13.51			



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

State Database: NY Radon

#### Radon Test Results

County	Town	Num Tests	Avg Result	Geo Mean	Max Result
SUFFOLK	BABYLON	49	1.07	0.76	5.5
SUFFOLK	BROOKHAVEN	117	1.61	1.22	7.5
SUFFOLK	E. HAMPTON	19	1.55	1.16	4.7
SUFFOLK	HUNTINGTON	146	2.13	1.47	22.2
SUFFOLK	ISLIP	61	1.19	0.74	10.4
SUFFOLK	NORTHPORT	4	1.43	1.12	2.5
SUFFOLK	RIVERHEAD	9	2.18	1.26	8.9
SUFFOLK	SHELTER ISLAND	1	1.1	1.1	1.1
SUFFOLK	SMITHTOWN	60	3.02	1.48	42.6
SUFFOLK	SOUTHAMPTON	24	0.99	0.8	2.8
SUFFOLK	SOUTHOLD	7	2.47	1.58	8.6

Federal EPA Radon Zone for SUFFOLK County: 3

Note: Zone 1 indoor average level > 4 pCi/L.  
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
: Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for SUFFOLK COUNTY, NY

Number of sites tested: 183

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	100%	0%	0%
Basement	1.010 pCi/L	98%	2%	0%



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Freshwater Wetlands

Source: Department of Environmental Conservation

Telephone: 518-402-8961

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### New York Public Water Wells

Source: New York Department of Health

Telephone: 518-458-6731

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Database

Department of Environmental Conservation

Telephone: 518-402-8072

These files contain records, in the database, of wells that have been drilled.

### RADON

#### State Database: NY Radon

Source: Department of Health

Telephone: 518-402-7556

Radon Test Results

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey



## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.



## **APPENDIX D: QUALIFICATIONS/INSURANCE**

---



## Education

M.S. Ed., Outdoor Education, Northern Illinois University  
B.S., Wildlife Management/Biology, University of Wisconsin-Stevens Point

## Registrations

40-Hour Health and Safety Training (OSHA 29 CFR 1910.120)  
Certificate: UMD #101366  
USEPA Accredited Asbestos Inspector (AHERA)  
Certificates: #RWJ 1986AA (NJ) and #01-10765 (NY)  
NJDEP Underground Storage Tank Certification - Subsurface Investigation/Closure  
Certificate: #0018819

## Training

Mold Inspector Course  
NJDEP Site Remediation Standards Courses  
Radon Measurement Proficiency Course

## Highlights

22 years performing Phase I Environmental Site Assessments  
8 years performing wetland delineations and environmental inventory studies  
6 years as Source Manager of clean-fill materials for several landfill capping projects  
5 years performing outdoor education teaching programs (New Hampshire, Texas, Pennsylvania, Illinois)

## Experience Summary

Mr. Bachman has over 30 years of experience in the environmental service industry, and has been a Senior Assessor with Partner Engineering and Science, Inc. (Partner) for over two years. He has significant experience in due diligence assessments for a variety of property types, and the needs and requirements of several various reporting standards, including ASTM standards, EPA's All Appropriate Inquiry (AAI), and diverse customized client formats. Specifically, Mr. Bachman has performed Phase I Environmental Site Assessments (ESAs), Environmental Transaction Screens, Phase II and III Subsurface Investigations, asbestos surveys, lead-based paint surveys, radon studies, mold assessments, and lead-in-water sampling and analyses.

Mr. Bachman has performed wetland delineations, vegetation inventories, and environmental impact assessments on more than 300 commercial and residential development projects in New Jersey, Pennsylvania, and New York, for use in Site Plan configurations, for U. S. Army Corps of Engineers 404 Permits, and for NJDEP Freshwater Wetland Individual and General Permit acquisitions.

Mr. Bachman has also performed more than 2,000 Phase I and Phase II Environmental Assessments/Audits for the real estate community, regional and local financial institutions, and nationwide insurance companies in New Jersey, New York, Pennsylvania, Washington, D.C., Massachusetts, Connecticut, Delaware, Virginia, and Maryland. In addition, Mr. Bachman was principal author for many other Phase I Environmental Site Assessments in Florida, Indiana, Illinois, Texas, Arizona, California, Nevada, and Oregon.



Between 2006 and 2012, Mr. Bachman was also responsible for management and approval of more than 3.5 million cubic yards of clean fill material for landfill capping projects in Bergen, Hudson, and Morris Counties, New Jersey. The approval process for the materials included due diligence assessments of more than 1,200 properties in northern New Jersey, southern New York, and New York City.

### Project Experience

*Phase I ESA, Wagner College, Staten Island, NY.* Phase I Investigation and ESA Report for Wagner College, a four-year education institution established in 1929. The 103-acre property contains 21 buildings from one to 14 stories high, constructed between 1905 and 2012, and comprising over 990,000 square feet of floor space. The ESA involved evaluating seven active and five inactive/closed underground storage tanks (USTs), and four aboveground storage tanks (ASTs). Evaluation was also performed of eleven (11) spill cases that occurred between 1995 and 2007. Asbestos-containing materials (ACMs) and mold issues were also identified and quantified in the buildings.

*Phase I ESA, Carver Hall Apartments, Atlantic City, NJ.* Phase I Investigation and HUD ESA Report for multi-family residential facility containing 42 separate three-story Section 8 apartment buildings constructed in 1948-1949 on 5.2 acres, comprising three city blocks. The buildings consisted of 252 residential units, and ACM and radon studies were performed during the investigation.

*Phase I ESA, former New York Times Printing Facility, Woodbridge, NJ.* Combined dual Phase I Investigations for two separate properties formerly occupied by one operation, containing over 1.2 million square feet of warehouse space in two buildings. File reviews were performed at both local and state regulatory offices to assess impact from numerous prior subsurface investigations.

*Phase I ESA, former Gardner-Gibson Asphalt Plant, Kearny, NJ.* Comprehensive Phase I ESA for an inactive asphalt plant/ former lacquer manufacturing facility in Kearny, New Jersey. On-site operations consisted of a two-story office building, a vacant one-story warehouse building, a vacant former boiler building, and a two-story asphalt roofing and driveway sealant plant with warehouse. The study included review of information from historical air permits, an adjoining Superfund site, and 22 active and inactive aboveground storage tanks.

*Fresh Kills Landfill, Staten Island, NY.* Wetlands delineation and vegetation community mapping of the 2,700-acre Fresh Kills Sanitary Landfill site in Staten Island, New York. Biological studies concerned the proposed use of the Landfill as a naturally appealing park and multi-use facility. This study involved delineation of freshwater and tidal wetlands, collection of aquatic and terrestrial field data for comparative analysis with simultaneously collected soils, sediment, and water; and mitigation emphasizing habitat diversity on the site.

### Contact

dbachman@partneresi.com



## Education

BA Geology, The Ohio State University

## Registrations

California Professional Geologist No. 6221

Nevada Certified Environmental Manager No. 2359

## Training

OSHA, Hazardous Waste Operator (HAZWOPER) 40 hour Certification

AHERA Certified Asbestos Inspector

Certified Project Manager

## Highlights

Over 25 years of experience in the environmental service industry with a focus on due diligence assessments. Knowledgeable with ASTM, EPA's All Appropriate Inquiry (AAI), and customized client formats.

100+ Phase I Environmental Site Assessments

## Experience Summary

As Technical Director for due diligence services as part of the Investment Advisory Group, Ms. Stott focuses on report quality, client service, and sharing her years of expertise with staff and clients.

Ms. Stott has performed hundreds of Phase I Environmental Site Assessments, Third Party Reviews, Due Diligence Audits, Record Search and Risk Assessments, Phase II and III Subsurface Investigations, Underground storage tank investigations, Remedial Investigations, Radon Studies, Mold Assessments, Methane Surveys, Indoor Air Quality Assessments, and Lead-in-water sampling and analysis.

Clients have varied and have included: individual investors, City of Los Angeles Agencies, Los Angeles County, City of Anaheim, institutional investors, private and institutional equity companies, insurance companies, attorneys, brokers, developers, and multiple lenders.

## Project Experience

Ms. Stott has conducted, managed and directed thousands of ESAs throughout her career and has been Senior Project Manager for hundreds of site investigations, characterization studies and remediation projects throughout California and the US. The following select projects summarize her experience and due diligence background:

### Transaction Due Diligence

*Project Manager, Western US and Southern California, LBA Realty.* For over 16 years performed due diligence services related to real estate transfers as well as asset refinances for LBA Realty. The relationship requires close coordination and communication with property managers and representatives to provide a smooth process with client and lenders. Services have also included review of third party reports, asbestos surveys, subsurface investigations, and development of soil management plans. Many projects involved multiple locations in several states thus requiring coordination with other offices and client contacts.



*Environmental Lead, West Coast, Barings, LLC (Barings).* Ms. Stott assists with management and review of environmental due diligence and environmental actions associated with acquisitions, property development, joint venture developments, property divestments and finance group loan transactions. Environmental due diligence includes Phase I ESAs, Phase II ESAs, indoor air quality assessments, mold assessment and mitigation planning, providing third party review, asbestos investigations, asbestos abatement, operation and maintenance plan development, remedial action development and implementation, regulatory correspondence and permitting.

*Phase I ESAs – multiple clients throughout US.* Ms. Stott manages and oversees preparation of Phase I Environmental Site Assessments for several confidential clients. All are completed to ASTM guidelines with various special criteria specific to each client.

### **Subsurface Investigations/Vapor Intrusion**

*Project Manager, Whittier, CA, Confidential Client.* Conducted several investigations to evaluate the potential for vapor intrusion associated with contaminated groundwater into client buildings. At one location a horizontal well system was installed to passively vent vapors. Site investigations involved the installation of multiple, multi-depth vapor probes through the property to map the plume and to assist in decision making for potential further investigation. Data collected from both soil vapor and indoor air monitoring was subjected to risk assessment in order to determine if indoor air quality had been negatively impacted and engineering controls needed to protect workers. Client was able to purchase and redevelop portions of the desired parcels for use as parking.

*Project Manager and Environmental Lead, Berkeley, CA, LBA Realty.* Evaluation of potential risks associated with the presence of trichloroethylene (TCE) and breakdown products cis 1,2- dichloroethene (cis 1,2-DCE) and vinyl chloride (VC), and methyl tert butyl ether (MTBE) in groundwater and ambient air at an existing building in Berkeley, CA. Worked with outside counsel to evaluate, summarize, and present the risks and potential risks of continued investment in the property. Remedial systems were installed under DTSC oversight, risk assessment performed and the building remodeled and reused for office space.

### **Municipal/State Contracts**

*Project Manager, ESAs for City of Anaheim widening of Lincoln Avenue.* As a subcontractor to the geotechnical consultant, Partner provided Environmental Site Assessments for multiple properties along the project alignment. The parcel uses ranged from car wash, to older office and motel properties, automotive repair, banks, public school, and a church. Partner finished the multi-site project on time and within budget.

### **Contact**

Dstott@partneresi.com





## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

9/26/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER License # 0252636</b> <b>Gallant Risk &amp; Insurance Services, Inc.</b> 4160 Temescal Canyon Rd., #402 Corona, CA 92883	<b>CONTACT NAME:</b>	
	<b>PHONE (A/C, No, Ext):</b> (951) 368-0700	<b>FAX (A/C, No):</b> (951) 368-0707
<b>INSURED</b>  <b>Partner Assessment Corporation dba Partner Engineering &amp; Science, Inc.</b> 2154 Torrance Blvd., #200 Torrance, CA 90501	<b>E-MAIL ADDRESS:</b>	
	<b>INSURER(S) AFFORDING COVERAGE</b>	
	<b>INSURER A:</b> Starr Surplus Lines Insurance Company	<b>NAIC #</b> 13604
	<b>INSURER B:</b> Starr Indemnity & Liability Company	<b>38318</b>
	<b>INSURER C:</b> Underwriters at Lloyd's London	
	<b>INSURER D:</b>	
	<b>INSURER E:</b>	
	<b>INSURER F:</b>	

## COVERAGES

## CERTIFICATE NUMBER:

## REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> \$50k deductible  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:			1000065923161	09/27/2016	09/27/2017	EACH OCCURRENCE \$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000
							MED EXP (Any one person) \$ 25,000
							PERSONAL & ADV INJURY \$ 1,000,000
							GENERAL AGGREGATE \$ 2,000,000
							PRODUCTS - COMP/OP AGG \$ 2,000,000
							\$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			SISIPCA08346016	09/27/2016	09/27/2017	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
							BODILY INJURY (Per person) \$
							BODILY INJURY (Per accident) \$
							PROPERTY DAMAGE (Per accident) \$
							\$
A	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 0			10000336718161	09/27/2016	09/27/2017	EACH OCCURRENCE \$ 5,000,000
							AGGREGATE \$ 5,000,000
							\$
							\$
B	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y / N <input checked="" type="checkbox"/> Y N / A			1000002414	09/27/2016	09/27/2017	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER
							E.L. EACH ACCIDENT \$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Professional E&O			W199E1160201	09/27/2016	09/27/2017	Each Claim/Aggregate 1,000,000
A	Pollution Liability			1000065923161	09/27/2016	09/27/2017	Each Occ./Aggregate 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

## CERTIFICATE HOLDER

## CANCELLATION

Proof of Insurance

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

*Courtney Hanks*



## APPENDIX G

### EDR RADIUS MAP REPORT



**458 Lakeland Ave**  
458 Lakeland Ave  
Sayville, NY 11782

Inquiry Number: 5303084.2s  
May 21, 2018

## The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	8
Orphan Summary .....	131
Government Records Searched/Data Currency Tracking .....	GR-1

## GEOCHECK ADDENDUM

Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting SSURGO Soil Map .....	A-5
Physical Setting Source Map .....	A-12
Physical Setting Source Map Findings .....	A-14
Physical Setting Source Records Searched .....	PSGR-1

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

### **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2018 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

458 LAKELAND AVE  
SAYVILLE, NY 11782

#### COORDINATES

Latitude (North):	40.7554520 - 40° 45' 19.62"
Longitude (West):	73.0995180 - 73° 5' 58.26"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	660431.4
UTM Y (Meters):	4513136.5
Elevation:	32 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5940617 PATCHOGUE, NY
Version Date:	2013
Southeast Map:	5940627 SAYVILLE, NY
Version Date:	2013
Southwest Map:	5940595 BAY SHORE EAST, NY
Version Date:	2013
Northwest Map:	5940555 CENTRAL ISLIP, NY
Version Date:	2013

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150507
Source:	USDA



# MAPPED SITES SUMMARY

Target Property Address:  
458 LAKELAND AVE  
SAYVILLE, NY 11782

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	ISLAND HILLS GOLF CL	458 LAKELAND AVENUE	NY Spills		TP
2	ISLAND HILLS GOLF CL	CNTY RD 93 LAKELAND	NY UST, NY AST	Higher	1 ft.
3	UNKNOWN	67 CARRIE AVENUE	NY Spills	Higher	85, 0.016, SSE
4	CURCIO RESIDENCE	168 TERRY ROAD	NY Spills	Higher	94, 0.018, SSW
5	UNKNOWN	640 BOHEMIA PKWY	NY Spills	Higher	107, 0.020, SSW
A6	SUNRISE GARDEN APT	LAKELAND AVENUE	NY LTANKS	Higher	302, 0.057, NNE
A7	OCEAN ROCK & DIVING	LAKELAND AVENUE	NY Spills	Higher	302, 0.057, NNE
A8	E&B INDUSTRIAL CLEAN	LAKELAND AVE & SUNRI	NY Spills	Higher	302, 0.057, NNE
B9	FAIRFIELD/SAYVILLE C	400 ADAMS WAY/LAKELA	NY Spills	Higher	372, 0.070, NE
B10	FAIRFIELD/SAYVILLE C	400 ADAMS WAY/LAKELA	NY Spills	Higher	372, 0.070, NE
C11	JFA COLLISION	1 ARTIC AVE	NY UST	Higher	497, 0.094, WNW
C12	PARK SUNOCO	4850 SUNRISE HWY	EDR Hist Auto	Higher	518, 0.098, WNW
D13	TRI VENTURE CONST CO	SUNRISE HIGHWAY	NY Spills	Higher	520, 0.098, NNW
D14	CUMBERLAND FARMS # 7	4909 SUNRISE HWY	NY LTANKS, NY Spills	Higher	520, 0.098, NNW
D15	ED MIR SERVICE STATI	4909 SUNRISE HIGHWAY	EDR Hist Auto	Higher	520, 0.098, NNW
D16	BP PRODUCTS NORTH AM	4909 SUNRISE HWY	RCRA-SQG, NY UST, NY MANIFEST	Higher	520, 0.098, NNW
17	RESIDENCE	220 TERRY ROAD	NY Spills	Higher	539, 0.102, SW
E18	UNK	SUNRISE HWY & LAKELA	NY Spills	Higher	565, 0.107, NNE
F19	KOSTER KEUNEN INC	90 BOURNE BLVD	RCRA NonGen / NLR, FINDS, ECHO, NY AIRS, NY...	Higher	585, 0.111, SW
F20	KOSTER KEUNEN INC	90 BOURNE BLVD	NY UST	Higher	585, 0.111, SW
F21	GAZZA	123 TOLEDO ST	NY UST, NY AST	Higher	585, 0.111, SW
E22	SAYVILLE BOWLING ALL	SUNRISE HWY & LAKELA	NY Spills	Higher	637, 0.121, NNE
E23	UNKNOWN	LAKELAND AVE/SUNRISE	NY Spills	Higher	637, 0.121, NNE
E24	UNK	11TH ST/SUNRISE SOUT	NY Spills	Higher	637, 0.121, NNE
E25	TRI VENTURE	SUNRISE HWY/LAKELAND	NY Spills	Higher	637, 0.121, NNE
E26	UNKNOWN	SUNRISE HWY & LAKELA	NY Spills	Higher	637, 0.121, NNE
E27	UNKNOWN	LAKELAND AVE/RTE 27	NY Spills	Higher	637, 0.121, NNE
G28	LEE CHEVROLET INC.	4825 SUNRISE HWY	NJ MANIFEST	Higher	779, 0.148, NW
G29	LEE CHEVROLET	4825 SUNRISE HWY	RCRA-CESQG, FINDS, ECHO, NY MANIFEST	Higher	779, 0.148, NW
G30	GENERATION KIA	4825 SUNRISE HWY	NY AST	Higher	779, 0.148, NW
31	COUNTRY CLUB APTS	342 CNTY RD 93 LAKEL	NY UST	Higher	867, 0.164, ESE
32	ARIEL GRAPHICS	80 BOURNE BLVD	RCRA NonGen / NLR, FINDS, ECHO	Higher	1025, 0.194, SW
H33	SUNRISE DIAGNOSTICS	635 SMITHTOWN AVE	NY UST, NY AST	Higher	1122, 0.213, WNW
H34	AMOCO	635 SMITHTOWN AVE	NY LTANKS, NY Spills	Higher	1122, 0.213, WNW
H35	TARTAN OIL CO	635 SMITHTOWN AVE	RCRA NonGen / NLR, ICIS, FINDS, ECHO, NY MANIFEST	Higher	1122, 0.213, WNW
36	CHASE MANHATTAN BANK	5141 RTE 27 SUNRISE	NY UST	Higher	1272, 0.241, NNE
37	WEST SAYVILLE IFS TR	CHERRY AVE	SEMS-ARCHIVE, RCRA NonGen / NLR, NY MANIFEST	Lower	1292, 0.245, SSE
38	PAUL SCHNECBERG & SO	286 JOHNSON AVENUE	NY LTANKS	Higher	1638, 0.310, ENE
39	SAYVILLE MIDDLE SCHO	291 JOHNSON AVE	NY LTANKS	Higher	2120, 0.402, ENE



MAPPED SITES SUMMARY

Target Property Address:  
458 LAKELAND AVE  
SAYVILLE, NY 11782

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">40</a>	EXXON COMPANY U S A	5230 SUNRISE HWY & J	NY LTANKS, NY Spills, NY MANIFEST	Higher	2156, 0.408, NE
<a href="#">41</a>	GAZALOFF/P&G FUEL	386 HILLSIDE AVENUE	NY LTANKS	Lower	2254, 0.427, SSE
<a href="#">42</a>	FAIRFIELD PROPERTIES	EAST STREET & SHERRY	NY LTANKS	Lower	2568, 0.486, SSE



## EXECUTIVE SUMMARY

### **TARGET PROPERTY SEARCH RESULTS**

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ISLAND HILLS GOLF CL 458 LAKELAND AVENUE SAYVILLE, NY	NY Spills Date Closed: 2006-03-21 Spill Number: 0511071 Site ID: 357155	N/A

### **DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### **STANDARD ENVIRONMENTAL RECORDS**

#### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

#### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing  
SEMS..... Superfund Enterprise Management System

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

#### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

#### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators

#### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System



## EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent CERCLIS***

NY SHWS..... Inactive Hazardous Waste Disposal Sites in New York State

### ***State and tribal landfill and/or solid waste disposal site lists***

NY SWF/LF..... Facility Register

### ***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land  
NY HIST LTANKS..... Listing of Leaking Storage Tanks

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing  
NY CBS UST..... Chemical Bulk Storage Database  
NY MOSF UST..... Major Oil Storage Facilities Database  
NY MOSF..... Major Oil Storage Facility Site Listing  
NY CBS..... Chemical Bulk Storage Site Listing  
NY CBS AST..... Chemical Bulk Storage Database  
NY MOSF AST..... Major Oil Storage Facilities Database  
INDIAN UST..... Underground Storage Tanks on Indian Land  
NY TANKS..... Storage Tank Facility Listing

### ***State and tribal institutional control / engineering control registries***

NY RES DECL..... Restrictive Declarations Listing  
NY ENG CONTROLS..... Registry of Engineering Controls  
NY INST CONTROL..... Registry of Institutional Controls

### ***State and tribal voluntary cleanup sites***

NY VCP..... Voluntary Cleanup Agreements  
INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

NY BROWNFIELDS..... Brownfields Site List  
NY ERP..... Environmental Restoration Program Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

NY SWTIRE..... Registered Waste Tire Storage & Facility List



## EXECUTIVE SUMMARY

NY SWRCY.....	Registered Recycling Facility List
INDIAN ODI.....	Report on the Status of Open Dumps on Indian Lands
ODI.....	Open Dump Inventory
DEBRIS REGION 9.....	Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS.....	Open Dumps on Indian Land

### **Local Lists of Hazardous waste / Contaminated Sites**

US HIST CDL.....	Delisted National Clandestine Laboratory Register
NY DEL SHWS.....	Delisted Registry Sites
US CDL.....	National Clandestine Laboratory Register

### **Local Lists of Registered Storage Tanks**

NY HIST UST.....	Historical Petroleum Bulk Storage Database
NY HIST AST.....	Historical Petroleum Bulk Storage Database

### **Local Land Records**

NY LIENS.....	Spill Liens Information
LIENS 2.....	CERCLA Lien Information

### **Records of Emergency Release Reports**

HMIRS.....	Hazardous Materials Information Reporting System
NY Hist Spills.....	SPILLS Database
NY SPILLS 90.....	SPILLS 90 data from FirstSearch
NY SPILLS 80.....	SPILLS 80 data from FirstSearch

### **Other Ascertainable Records**

FUDS.....	Formerly Used Defense Sites
DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees



## EXECUTIVE SUMMARY

INDIAN RESERV.	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
NY COAL ASH	Coal Ash Disposal Site Listing
NY DRYCLEANERS	Registered Drycleaners
NY E DESIGNATION	E DESIGNATION SITE LISTING
NY Financial Assurance	Financial Assurance Information Listing
NY HSWDS	Hazardous Substance Waste Disposal Site Inventory
NY VAPOR REOPENED	Vapor Intrusion Legacy Site List
NY UIC	Underground Injection Control Wells

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

NY RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
NY RGA LF	Recovered Government Archive Solid Waste Facilities List

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no



## EXECUTIVE SUMMARY

further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 01/09/2018 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>WEST SAYVILLE IFS TR</b>	<b>CHERRY AVE</b>	<b>SSE 1/8 - 1/4 (0.245 mi.)</b>	<b>37</b>	<b>115</b>

### ***Federal RCRA generators list***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/11/2017 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>BP PRODUCTS NORTH AM</b>	<b>4909 SUNRISE HWY</b>	<b>NNW 0 - 1/8 (0.098 mi.)</b>	<b>D16</b>	<b>39</b>

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 12/11/2017 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LEE CHEVROLET</b>	<b>4825 SUNRISE HWY</b>	<b>NW 1/8 - 1/4 (0.148 mi.)</b>	<b>G29</b>	<b>86</b>

### ***State and tribal leaking storage tank lists***

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking



## EXECUTIVE SUMMARY

underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 02/12/2018 has revealed that there are 8 NY LTANKS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SUNRISE GARDEN APT Date Closed: 1997-08-14 Site ID: 87162 Program Number: 9704618	LAKELAND AVENUE	NNE 0 - 1/8 (0.057 mi.)	A6	16
<b>CUMBERLAND FARMS # 7</b> Date Closed: 2012-10-19 Site ID: 465364 Program Number: 1202591	<b>4909 SUNRISE HWY</b>	<b>NNW 0 - 1/8 (0.098 mi.)</b>	<b>D14</b>	<b>25</b>
<b>AMOCO</b> Date Closed: 1995-02-22 Site ID: 103635 Program Number: 9403110	<b>635 SMITHTOWN AVE</b>	<b>WNW 1/8 - 1/4 (0.213 mi.)</b>	<b>H34</b>	<b>105</b>
PAUL SCHNECBERG & SO Date Closed: 1997-03-05 Site ID: 131600 Program Number: 9209189	286 JOHNSON AVENUE	ENE 1/4 - 1/2 (0.310 mi.)	38	119
SAYVILLE MIDDLE SCHO Date Closed: 1994-02-09 Site ID: 324204 Program Number: 9303436	291 JOHNSON AVE	ENE 1/4 - 1/2 (0.402 mi.)	39	121
<b>EXXON COMPANY U S A</b> Date Closed: 1987-03-26 Site ID: 297806 Site ID: 297807 Program Number: 8607082 Program Number: 8607524	<b>5230 SUNRISE HWY &amp; J</b>	<b>NE 1/4 - 1/2 (0.408 mi.)</b>	<b>40</b>	<b>122</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GAZALOFF/P&G FUEL Date Closed: 1995-11-27 Site ID: 77112 Program Number: 9508717	386 HILLSIDE AVENUE	SSE 1/4 - 1/2 (0.427 mi.)	41	128
FAIRFIELD PROPERTIES Date Closed: 1989-07-03 Site ID: 257985 Program Number: 8900985	EAST STREET & SHERRY	SSE 1/4 - 1/2 (0.486 mi.)	42	129

### State and tribal registered storage tank lists

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, has revealed that there are 8 NY UST sites within



## EXECUTIVE SUMMARY

approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ISLAND HILLS GOLF CL</b> Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Facility ID: 11452 Site Ref#: 11452	<b>CNTY RD 93 LAKELAND</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>2</b>	<b>9</b>
JFA COLLISION Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Facility ID: 10017 Site Ref#: 10017	1 ARTIC AVE	WNW 0 - 1/8 (0.094 mi.)	C11	21
<b>BP PRODUCTS NORTH AM</b> Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Facility ID: 09474 Site Ref#: 09474	<b>4909 SUNRISE HWY</b>	<b>NNW 0 - 1/8 (0.098 mi.)</b>	<b>D16</b>	<b>39</b>
KOSTER KEUNEN INC Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Facility ID: 10290 Site Ref#: 10290	90 BOURNE BLVD	SW 0 - 1/8 (0.111 mi.)	F20	61
<b>GAZZA</b> Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Facility ID: 01595 Site Ref#: 01595	<b>123 TOLEDO ST</b>	<b>SW 0 - 1/8 (0.111 mi.)</b>	<b>F21</b>	<b>64</b>
COUNTRY CLUB APTS Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Facility ID: 09427 Site Ref#: 09427	342 CNTY RD 93 LAKEL	ESE 1/8 - 1/4 (0.164 mi.)	31	95
<b>SUNRISE DIAGNOSTICS</b> Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Facility ID: 09638 Site Ref#: 09638	<b>635 SMITHTOWN AVE</b>	<b>WNW 1/8 - 1/4 (0.213 mi.)</b>	<b>H33</b>	<b>98</b>
CHASE MANHATTAN BANK Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Facility ID: 09151 Site Ref#: 09151	5141 RTE 27 SUNRISE	NNE 1/8 - 1/4 (0.241 mi.)	36	114

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, has revealed that there are 4 NY AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ISLAND HILLS GOLF CL</b> Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015 Site Ref#: 11452 Facility Id: 11452	<b>CNTY RD 93 LAKELAND</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>2</b>	<b>9</b>
<b>GAZZA</b> Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015 Site Ref#: 10290	<b>123 TOLEDO ST</b>	<b>SW 0 - 1/8 (0.111 mi.)</b>	<b>F21</b>	<b>64</b>



## EXECUTIVE SUMMARY

Facility Id: 10290				
GENERATION KIA	4825 SUNRISE HWY	NW 1/8 - 1/4 (0.148 mi.)	G30	91
Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015				
Site Ref#: 06962				
Status: ACTIVE				
Facility Id: 06962				
<b>SUNRISE DIAGNOSTICS</b>	<b>635 SMITHTOWN AVE</b>	<b>WNW 1/8 - 1/4 (0.213 mi.)</b>	<b>H33</b>	<b>98</b>
Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015				
Site Ref#: 09638				
Facility Id: 09638				

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Records of Emergency Release Reports***

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 02/12/2018 has revealed that there are 17 NY Spills sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNKNOWN Date Closed: 2017-06-20 Spill Number: 1511062 Site ID: 522778	67 CARRIE AVENUE	SSE 0 - 1/8 (0.016 mi.)	3	12
CURCIO RESIDENCE Date Closed: 2012-01-31 Spill Number: 1111813 Site ID: 459728	168 TERRY ROAD	SSW 0 - 1/8 (0.018 mi.)	4	13
UNKNOWN Date Closed: 2011-06-06 Spill Number: 1004768 Site ID: 438054	640 BOHEMIA PKWY	SSW 0 - 1/8 (0.020 mi.)	5	15
OCEAN ROCK & DIVING Date Closed: 1999-09-22 Spill Number: 9708750 Site ID: 87163	LAKELAND AVENUE	NNE 0 - 1/8 (0.057 mi.)	A7	17
E&B INDUSTRIAL CLEAN Date Closed: 1989-05-04 Spill Number: 8806243 Site ID: 186589	LAKELAND AVE & SUNRI	NNE 0 - 1/8 (0.057 mi.)	A8	18
FAIRFIELD/SAYVILLE C Date Closed: 2016-08-09 Spill Number: 1604708 Site ID: 531223	400 ADAMS WAY/LAKELA	NE 0 - 1/8 (0.070 mi.)	B9	19
FAIRFIELD/SAYVILLE C	400 ADAMS WAY/LAKELA	NE 0 - 1/8 (0.070 mi.)	B10	20



## EXECUTIVE SUMMARY

Date Closed: 2016-08-09 Spill Number: 1604699 Site ID: 531214				
TRI VENTURE CONST CO	SUNRISE HIGHWAY	NNW 0 - 1/8 (0.098 mi.)	D13	23
Date Closed: 1990-09-14 Date Closed: 1998-09-23 Spill Number: 9005927 Spill Number: 9712676 Site ID: 248558 Site ID: 248572				
<b>CUMBERLAND FARMS # 7</b>	<b>4909 SUNRISE HWY</b>	<b>NNW 0 - 1/8 (0.098 mi.)</b>	<b>D14</b>	<b>25</b>
Date Closed: 1993-02-11 Date Closed: 2006-11-27 Date Closed: 2013-02-08 Date Closed: 2008-04-15 Date Closed: 2008-07-31 <i>*Additional key fields are available in the Map Findings section</i> Spill Number: 9202956 Spill Number: 0609728 Spill Number: 1204916 Spill Number: 0712416 Spill Number: 0805016 <i>*Additional key fields are available in the Map Findings section</i> Site ID: 313633 Site ID: 374026 Site ID: 467822 Site ID: 394025 Site ID: 402044 <i>*Additional key fields are available in the Map Findings section</i>				
RESIDENCE	220 TERRY ROAD	SW 0 - 1/8 (0.102 mi.)	17	53
Date Closed: 2010-08-13 Spill Number: 1005397 Site ID: 438712				
UNK	SUNRISE HWY & LAKELA	NNE 0 - 1/8 (0.107 mi.)	E18	54
Date Closed: 1995-08-23 Spill Number: 9506171 Site ID: 93090				
SAYVILLE BOWLING ALL	SUNRISE HWY & LAKELA	NNE 0 - 1/8 (0.121 mi.)	E22	71
Date Closed: 1991-03-28 Spill Number: 9012854 Site ID: 93089				
UNKNOWN	LAKELAND AVE/SUNRISE	NNE 0 - 1/8 (0.121 mi.)	E23	72
Date Closed: 2004-10-06 Spill Number: 0401075 Site ID: 101173				
UNK	11TH ST/SUNRISE SOUT	NNE 0 - 1/8 (0.121 mi.)	E24	73
Date Closed: 2001-01-23 Spill Number: 0025378 Site ID: 82238				
TRI VENTURE	SUNRISE HWY/LAKELAND	NNE 0 - 1/8 (0.121 mi.)	E25	74
Date Closed: 1998-07-06 Spill Number: 9712382				



## EXECUTIVE SUMMARY

Site ID: 238082				
UNKNOWN	SUNRISE HWY & LAKELA	NNE 0 - 1/8 (0.121 mi.)	E26	75
Date Closed: 1990-08-14				
Spill Number: 8903887				
Site ID: 83882				
UNKNOWN	LAKELAND AVE/RTE 27	NNE 0 - 1/8 (0.121 mi.)	E27	76
Date Closed: 2004-06-17				
Spill Number: 0402922				
Site ID: 314666				

### Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/11/2017 has revealed that there are 4 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>KOSTER KEUNEN INC</b>	<b>90 BOURNE BLVD</b>	<b>SW 0 - 1/8 (0.111 mi.)</b>	<b>F19</b>	<b>55</b>
<b>ARIEL GRAPHICS</b>	<b>80 BOURNE BLVD</b>	<b>SW 1/8 - 1/4 (0.194 mi.)</b>	<b>32</b>	<b>96</b>
<b>TARTAN OIL CO</b>	<b>635 SMITHTOWN AVE</b>	<b>WNW 1/8 - 1/4 (0.213 mi.)</b>	<b>H35</b>	<b>110</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>WEST SAYVILLE IFS TR</b>	<b>CHERRY AVE</b>	<b>SSE 1/8 - 1/4 (0.245 mi.)</b>	<b>37</b>	<b>115</b>

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 12/31/2017 has revealed that there are 5 NY MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>BP PRODUCTS NORTH AM</b> EPA ID: NYD986928687	<b>4909 SUNRISE HWY</b>	<b>NNW 0 - 1/8 (0.098 mi.)</b>	<b>D16</b>	<b>39</b>
<b>KOSTER KEUNEN INC</b> EPA ID: NYD002048593	<b>90 BOURNE BLVD</b>	<b>SW 0 - 1/8 (0.111 mi.)</b>	<b>F19</b>	<b>55</b>
<b>LEE CHEVROLET</b> EPA ID: NYD982737017	<b>4825 SUNRISE HWY</b>	<b>NW 1/8 - 1/4 (0.148 mi.)</b>	<b>G29</b>	<b>86</b>
<b>TARTAN OIL CO</b> EPA ID: NYD986931954	<b>635 SMITHTOWN AVE</b>	<b>WNW 1/8 - 1/4 (0.213 mi.)</b>	<b>H35</b>	<b>110</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>WEST SAYVILLE IFS TR</b>	<b>CHERRY AVE</b>	<b>SSE 1/8 - 1/4 (0.245 mi.)</b>	<b>37</b>	<b>115</b>



## EXECUTIVE SUMMARY

EPA ID: NY8690536208

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2016 has revealed that there is 1 NJ MANIFEST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LEE CHEVROLET INC. EPA Id: NYD982737017	4825 SUNRISE HWY	NW 1/8 - 1/4 (0.148 mi.)	G28	77

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PARK SUNOCO	4850 SUNRISE HWY	WNW 0 - 1/8 (0.098 mi.)	C12	22
ED MIR SERVICE STATI	4909 SUNRISE HIGHWAY	NNW 0 - 1/8 (0.098 mi.)	D15	38



## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name

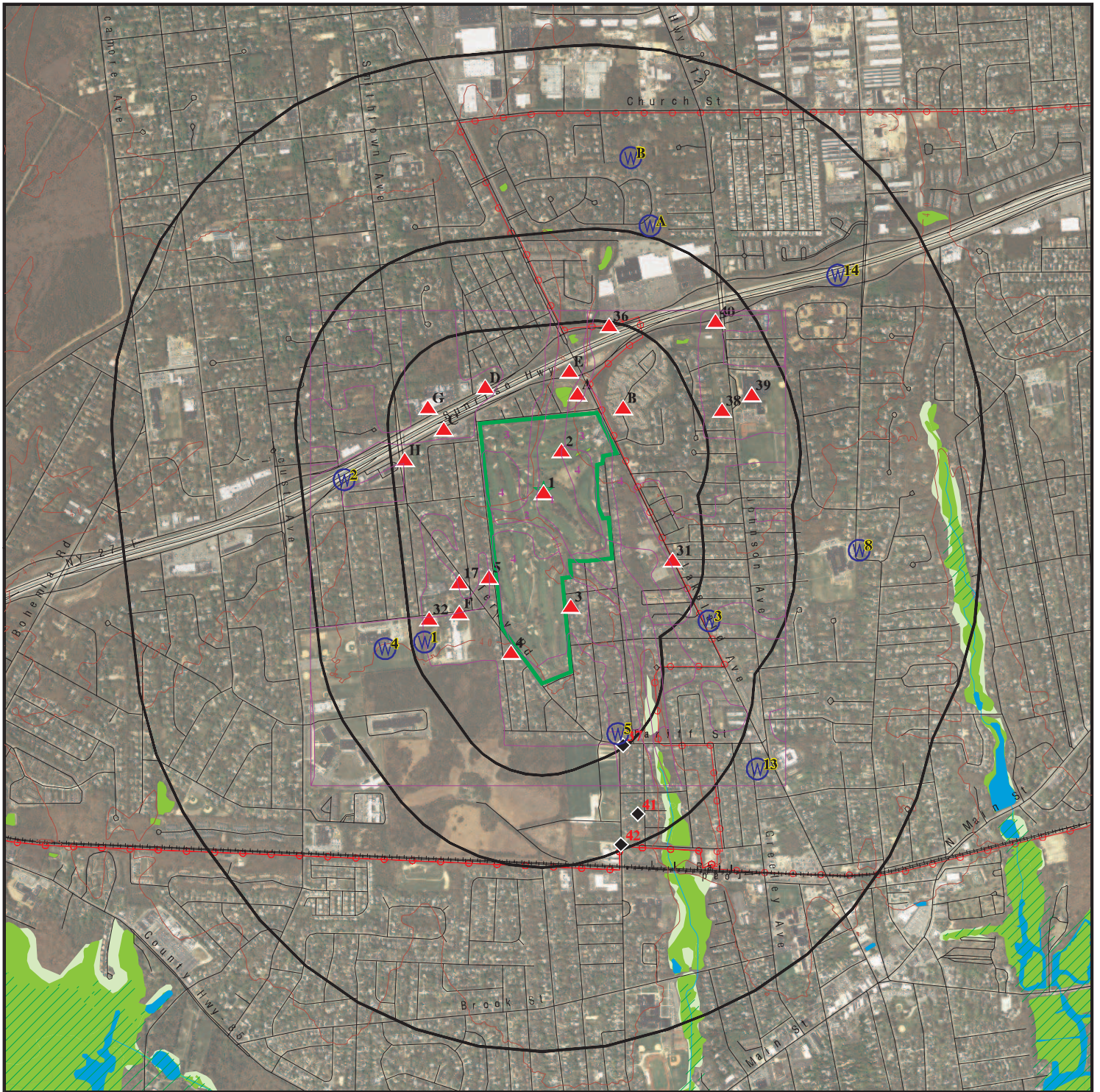
LINCOLN AVENUE  
S.C.W.A. WELLFIELD - BOHEMIA  
FIRE ISLAND L.F.  
BOSTI ELEMENTARY SCHOOL

Database(s)

SEMS-ARCHIVE, PRP  
NY SHWS  
NY SHWS  
NY LTANKS



# OVERVIEW MAP - 5303084.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

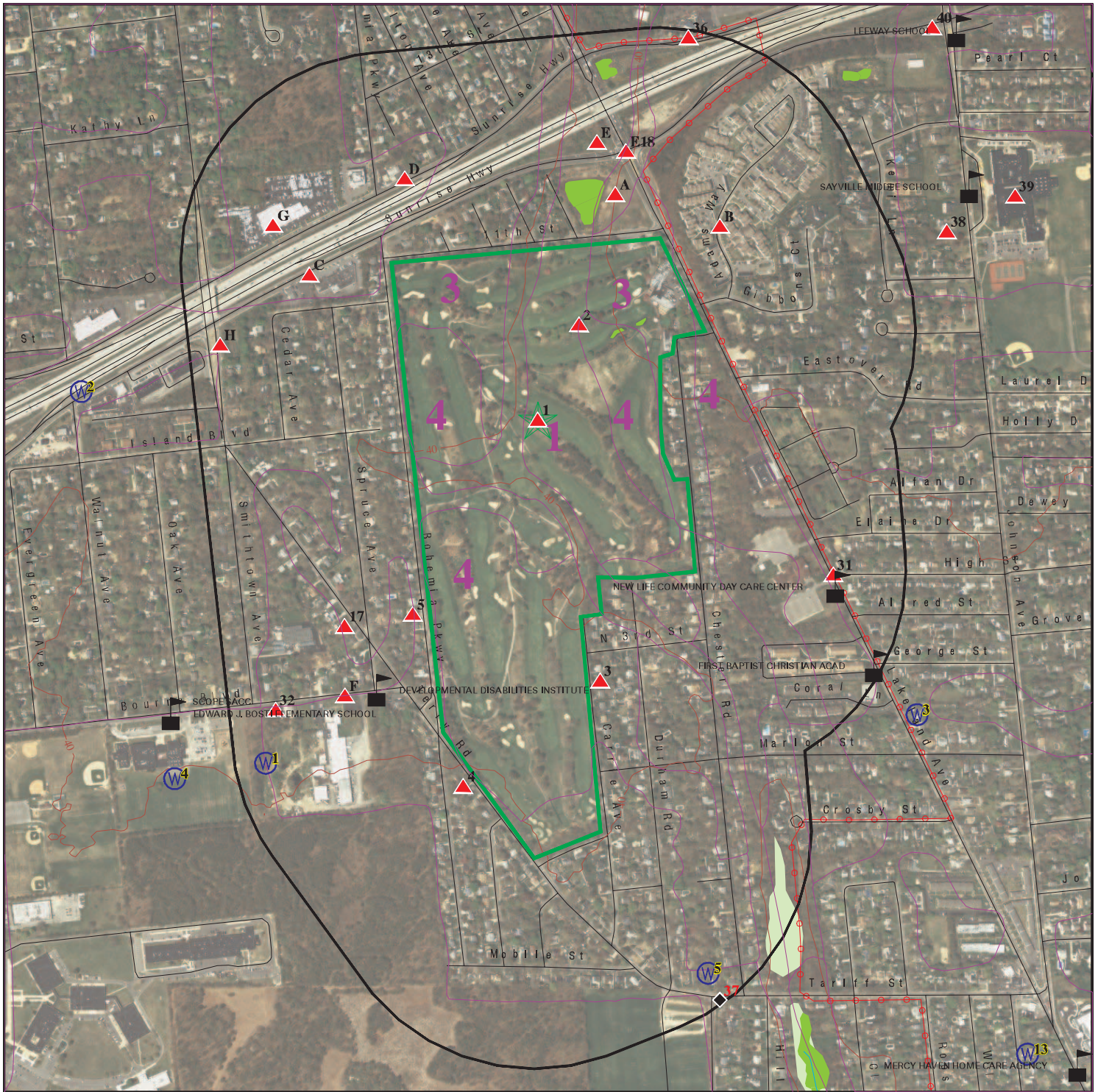
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 458 Lakeland Ave  
ADDRESS: 458 Lakeland Ave  
Sayville NY 11782  
LAT/LONG: 40.755452 / 73.099518

CLIENT: P.W. Grosser Consulting  
CONTACT: Lisa Schreiner  
INQUIRY #: 5303084.2s  
DATE: May 21, 2018 3:28 pm



# DETAIL MAP - 5303084.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Power transmission lines
- National Wetland Inventory
- State Wetlands

0 1/8 1/4 1/2 Miles



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 458 Lakeland Ave  
 ADDRESS: 458 Lakeland Ave  
 Sayville NY 11782  
 LAT/LONG: 40.755452 / 73.099518

CLIENT: P.W. Grosser Consulting  
 CONTACT: Lisa Schreiner  
 INQUIRY #: 5303084.2s  
 DATE: May 21, 2018 3:29 pm



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	1	0	NR	NR	1
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
NY SHWS	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
NY SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
INDIAN LUST	0.500		0	0	0	NR	NR	0
NY LTANKS	0.500		2	1	5	NR	NR	8
NY HIST LTANKS	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY UST	0.250		5	3	NR	NR	NR	8
NY CBS UST	0.250		0	0	NR	NR	NR	0
NY MOSF UST	0.500		0	0	0	NR	NR	0
NY MOSF	0.500		0	0	0	NR	NR	0
NY CBS	0.250		0	0	NR	NR	NR	0
NY AST	0.250		2	2	NR	NR	NR	4
NY CBS AST	0.250		0	0	NR	NR	NR	0
NY MOSF AST	0.500		0	0	0	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
NY TANKS	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
NY RES DECL	0.125		0	NR	NR	NR	NR	0
NY ENG CONTROLS	0.500		0	0	0	NR	NR	0
NY INST CONTROL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
NY VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
NY BROWNFIELDS	0.500		0	0	0	NR	NR	0
NY ERP	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
NY SWTIRE	0.500		0	0	0	NR	NR	0
NY SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
NY DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
NY HIST UST	0.250		0	0	NR	NR	NR	0
NY HIST AST	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
NY LIENS	TP		NR	NR	NR	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125	1	17	NR	NR	NR	NR	18
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
NY SPILLS 90	0.125		0	NR	NR	NR	NR	0
NY SPILLS 80	0.125		0	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		1	3	NR	NR	NR	4
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
NY AIRS	TP		NR	NR	NR	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
NY DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NY E DESIGNATION	0.125		0	NR	NR	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY Financial Assurance	TP		NR	NR	NR	NR	NR	0
NY HSWDS	0.500		0	0	0	NR	NR	0
NY MANIFEST	0.250		2	3	NR	NR	NR	5
NJ MANIFEST	0.250		0	1	NR	NR	NR	1
NY SPDES	TP		NR	NR	NR	NR	NR	0
NY VAPOR REOPENED	0.500		0	0	0	NR	NR	0
NY UIC	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

NY RGA HWS	TP		NR	NR	NR	NR	NR	0
NY RGA LF	TP		NR	NR	NR	NR	NR	0

- Totals --		1	32	15	5	0	0	53
-------------	--	---	----	----	---	---	---	----

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

EDR ID Number  
EPA ID Number

**1**  
**Target**  
**Property**

**ISLAND HILLS GOLF CLUB**  
**458 LAKELAND AVENUE**  
**SAYVILLE, NY**

**NY Spills** **S107521425**  
**N/A**

**Actual:**  
**32 ft.**

**SPILLS:**

Facility ID: 0511071  
Facility Type: ER  
Spill Number: 0511071  
DER Facility ID: 307187  
Site ID: 357155  
DEC Region: 1  
Closed Date: 2006-03-21  
Spill Cause: Other  
Spill Class: B3  
SWIS: 5228  
Spill Date: 2005-12-21  
Investigator: HMCIRRIT  
Referred To: Not reported  
Reported to Dept: 2005-12-21  
CID: 408  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Tank Tester  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2005-12-21  
Spill Record Last Update: 2014-09-22  
Spiller Name: JOHN GENOVESI  
Spiller Company: ISLAND HILLS GOLF CLUB  
Spiller Address: 458 LAKELAND AVE  
Spiller Company: 001  
Contact Name: JOHN  
DEC Memo: "12/21/05 15:25 LEFT MESSAGE FOR STEVE-G&M DEGE, LINE TEST, BAD CHECK VALVE, DOES NOT BELIEVE THERE IS A SPILL, PLANS TO RETEST LINE REPLACED CHECK VALVE, ACTUALLY FOUND SYSTEM TO HAVE 2 DO THEY REMOVED THE ONE AT THE TANK TOP"  
Remarks: "SUFFOLK CTY #05-0623. 99% SURE THAT THE PRODUCT IS GOING BACK INTO THE TANK."

**All Materials:**

Site ID: 357155  
Operable Unit ID: 1114434  
Operable Unit: 01  
Material ID: 2104507  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported  
Units: G  
Recovered: .00  
Oxygenate: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

2

**ISLAND HILLS GOLF CLUB**  
**CNTY RD 93 LAKELAND AVE**  
**SAYVILLE, NY 11782**

**NY UST**  
**NY AST**

**U003843439**  
**N/A**

< 1/8  
1 ft.

**Relative:**  
**Higher**

**Actual:**  
**32 ft.**

SUFFOLK CO. UST:

Region:	SUFFOLK
Site Ref#:	11452
Status:	Not reported
Site Type:	Not reported
Operating Permit Expires:	Not reported
Owner/Storage Information:	Not reported

Facility Info:

Site Ref#:	11452
Billing Contact:	Not reported
Billing Address:	Not reported
Billing Address:	Not reported
Billing State:	Not reported
Billing Zip:	Not reported
Storage Owner:	ISLAND HILLS GOLF CLUB
Storage Owner Address:	LAKELAND AVE.
Storage Owner City:	SAYVILLE
Storage Owner State:	NY
Storage Owner Zip:	11782

Tank Info:

Facility ID:	11452
Facility Reference #:	07235
Official Use:	Removed Tank. 86
Township:	ISLIP
Tax Map No:	0500 280.00 001 015.000
Region:	SUFFOLK
Permit to Operate:	Not reported

Tank ID:	1
Tank Key:	31792
Installed:	77
Capacity:	0000002000
Substance:	GASOLINE
Date Removed:	010186
Construction:	STEEL
Dispenser:	SUCTION
Fill Type:	GRAVITY
Tank Location:	UNDER
Tabk Status:	Not reported
Total Capacity:	0000002000
Date Permitted:	Not reported
Date Closed:	Not reported
Internal Protection:	Not reported
Secondary Containment:	Not reported
Extrenal Protection:	Not reported
Leak Detection:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ISLAND HILLS GOLF CLUB (Continued)**

**U003843439**

Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010186  
Year Installed: 77  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 2  
Tank Key: 31793  
Installed: 86  
Capacity: 0000001000  
Substance: GASOLINE  
Date Removed: Not reported  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: Not reported  
Year Installed: 86  
Description of drop records: RECORDS AS OF 09/10/2013

**AST\_SUFFOLK:**

Region: SUFFOLK  
Site Ref#: 11452  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

**Facility Info:**

Site Ref#: 11452  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: ISLAND HILLS GOLF CLUB  
Storage Owner Address: LAKELAND AVE.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ISLAND HILLS GOLF CLUB (Continued)**

**U003843439**

Storage Owner City: SAYVILLE  
Storage Owner State: NY  
Storage Owner Zip: 11782

**Tank Info:**

Facility ID: 11452  
Facility Reference #: 07235  
Township: ISLIP  
Tax Map No: 0500  
Region: SUFFOLK

Tank ID: 3  
Tank Key: 31794  
Year Installed: 79  
Substance: DIESEL  
Construction: STEEL  
Dispenser: SUCTION  
Official Use: Removed Tank. 98  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000275  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 083198

Tank ID: 4  
Tank Key: 31795  
Year Installed: Not reported  
Substance: CHEMICAL STORAGE CON  
Construction: Not reported  
Dispenser: Not reported  
Official Use: Removed Tank. 98  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ISLAND HILLS GOLF CLUB (Continued)**

**U003843439**

Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	Not reported
Date Removed:	031798
Tank ID:	5
Tank Key:	31796
Year Installed:	Not reported
Substance:	DIESEL
Construction:	STEEL
Dispenser:	SUCTION
Official Use:	Permitted Tank. Permit Runs Out. 04
Permit to Operate:	051099
Tank Location:	ABOVE
Tank Status:	Not reported
Total Capacity:	0000000300
Date Permitted:	Not reported
Date Closed:	Not reported
Internal Protection:	Not reported
Secondary Containment:	Not reported
Extrenal Protection:	Not reported
Leak Detection:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	PUMPED
Date Removed:	Not reported

**3**  
**SSE**  
**< 1/8**  
**0.016 mi.**  
**85 ft.**

**UNKNOWN**  
**67 CARRIE AVENUE**  
**SAYVILLE, NY**

**NY Spills** **S118636057**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**43 ft.**

SPILLS:	
Facility ID:	1511062
Facility Type:	ER
Spill Number:	1511062
DER Facility ID:	477035
Site ID:	522778
DEC Region:	1
Closed Date:	2017-06-20
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	5228



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNKNOWN (Continued)**

**S118636057**

Spill Date: 2016-02-17  
Investigator: hmcirrit  
Referred To: Not reported  
Reported to Dept: 2016-02-17  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Transformer  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2016-02-17  
Spill Record Last Update: 2017-06-26  
Spiller Name: BILLY STUBER  
Spiller Company: PSEG/LIPA  
Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: BILLY STUBER  
DEC Memo: "TRANSFORMER 65850 PER PSEG INCIDENT DESCRIPTION: BG UNIT LEAKED 10 GALLONS INTO ITS VAULT. MILLER PERFORMED CLEANUP, NONPCB BY NAMEPLATE. READY TO CLOSE"  
Remarks: "loss to hole, c/u pending"

All Materials:  
Site ID: 522778  
Operable Unit ID: 1271782  
Operable Unit: 01  
Material ID: 2276092  
Material Code: 0020A  
Material Name: transformer oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 10.00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

4  
SSW  
< 1/8  
0.018 mi.  
94 ft.

**CURCIO RESIDENCE**  
**168 TERRY ROAD**  
**SAYVILLE, NY**

**NY Spills S111457531**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**39 ft.**

SPILLS:  
Facility ID: 1111813  
Facility Type: ER  
Spill Number: 1111813  
DER Facility ID: 414187  
Site ID: 459728  
DEC Region: 1  
Closed Date: 2012-01-31  
Spill Cause: Equipment Failure  
Spill Class: C4  
SWIS: 5228



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURCIO RESIDENCE (Continued)**

**S111457531**

Spill Date: 2012-01-07  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2012-01-07  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Private Dwelling  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2012-01-07  
Spill Record Last Update: 2012-04-24  
Spiller Name: MR. CURCIO  
Spiller Company: CURCIO RESIDENCE  
Spiller Address: 168 TERRY RD  
Spiller Company: 999  
Contact Name: MR. CURCIO  
DEC Memo: "1/7/2011 12:50 t/c from Mike Delgado, Islip Hazmat on site. -Leak stopped, speedy dry deployed to the basement floor. -No drains/ soil affected. -House is owner occupied. -Advised Delgado that the home owner is responsible for the cleanup. -Islip FM to issue cleanup forthwith. (BD) 01/10/12 1205 Hrs (A): HUGO (SERV-PRO) called to determine whether an inspector had been assigned. 01/10/12 1205 Hrs (B): Informed him of what this office had been told, and that no inspector had been assigned. HE CONFIRMED THE SPILLAGE WAS ONLY ON CONCRETE. 01/10/12 1205 Hrs (C): Directed him to send a letter summarizing what had happened; what was impacted; what was performed for a cleanup; etc to the Reg Spill Engineer requesting closure. DR"  
Remarks: "40 gal from hole in tank, patch on tank, 4 bags of speedie dry down, contained in concrete basement."

**All Materials:**

Site ID: 459728  
Operable Unit ID: 1209811  
Operable Unit: 01  
Material ID: 2207363  
Material Code: 0001A  
Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 40.00  
Units: G  
Recovered: Not reported  
Oxygenate: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

5  
SSW  
< 1/8  
0.020 mi.  
107 ft.

UNKNOWN  
640 BOHEMIA PKWY  
SAYVILLE, NY

NY Spills S110490436  
N/A

Relative:  
Higher  
Actual:  
43 ft.

SPILLS:

Facility ID: 1004768  
Facility Type: ER  
Spill Number: 1004768  
DER Facility ID: 393028  
Site ID: 438054  
DEC Region: 1  
Closed Date: 2011-06-06  
Spill Cause: Equipment Failure  
Spill Class: C4  
SWIS: 5228  
Spill Date: 2010-07-27  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2010-07-27  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2010-07-27  
Spill Record Last Update: 2011-06-08  
Spiller Name: JOSEPH BARBERA  
Spiller Company: NATIONAL GRID/LIPA  
Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: JOSPEH BARBERA  
DEC Memo: "POLE 35 TRANSFORMER"  
Remarks: "APPROX 1 GALLON DOWN POLE TO PAVEMENT/SOIL. CLEANUP PENDING."

All Materials:

Site ID: 438054  
Operable Unit ID: 1188713  
Operable Unit: 01  
Material ID: 2183650  
Material Code: 0020A  
Material Name: transformer oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1.00  
Units: G  
Recovered: Not reported  
Oxygenate: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

EDR ID Number  
EPA ID Number

A6  
NNE  
< 1/8  
0.057 mi.  
302 ft.  
Site 1 of 3 in cluster A

NY LTANKS S102660068  
N/A

Relative:  
Higher  
Actual:  
40 ft.

LTANKS:

Facility ID: 9704618  
Site ID: 87162  
Closed Date: 1997-08-14  
Spill Number: 9704618  
Spill Date: 1997-07-17  
Spill Cause: Tank Failure  
Spill Source: Commercial/Industrial  
Spill Class: B3  
Cleanup Ceased: Not reported  
SWIS: 5200  
Investigator: BPAUSTIN  
Referred To: Not reported  
Reported to Dept: 1997-07-17  
CID: 257  
Water Affected: Not reported  
Spill Notifier: Health Department  
Last Inspection: Not reported  
Recommended Penalty: False  
Meets Standard: True  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1997-07-17  
Spill Record Last Update: 1997-08-15  
Spiller Name: NONE  
Spiller Company: SUNRISE GARDEN APT  
Spiller Address: LAKELAND AVENUE  
Spiller County: 001  
Spiller Contact: NONE  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 79894  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was AUSTIN 3K #2 FUEL OIL WITH 2 PINHOLES, THEY'RE AWAITING DEC INSPECTION, SEWER LINE IS VISIBLE IN THE TANK HOLE, TANKS STILL ON SITE FOR INSPECTION AUSTIN ON SITE, THOROUGHLY CHECKED UNDISTURBED SOILS OF EXCAVATION BY VISUAL, FACTORY, AND PID. SOIL IS DISCOLORED FROM RUST AND TAR LIKE COATING OF TANKS. HOWEVER, NO INDICATION OF PETROLEUM CONTAMINATION FOUND IN ANY SAMPLE"

Remarks: "DURING TANK REMOVAL THEY FOUND CONTAMINATED SOIL UNDER TANK"

All Materials:

Site ID: 87162  
Operable Unit ID: 1050482  
Operable Unit: 01  
Material ID: 553453  
Material Code: 0001A  
Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE GARDEN APT (Continued)**

**S102660068**

Oxygenate: Not reported

**A7**  
**NNE**  
**< 1/8**  
**0.057 mi.**  
**302 ft.**

**OCEAN ROCK & DIVING**  
**LAKELAND AVENUE**  
**BOHEMIA, NY**

**NY Spills S102661222**  
**N/A**

**Site 2 of 3 in cluster A**

**Relative:**  
**Higher**

**Actual:**  
**40 ft.**

**SPILLS:**

Facility ID: 9708750  
Facility Type: ER  
Spill Number: 9708750  
DER Facility ID: 79894  
Site ID: 87163  
DEC Region: 1  
Closed Date: 1999-09-22  
Spill Cause: Deliberate  
Spill Class: C3  
SWIS: 5200  
Spill Date: 1997-10-26  
Investigator: RDDECAND  
Referred To: Not reported  
Reported to Dept: 1997-10-27  
CID: 365  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Affected Persons  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1997-10-27  
Spill Record Last Update: 1999-09-23  
Spiller Name: Not reported  
Spiller Company: OCEAN ROCK & DIVING  
Spiller Address: LAKELAND AVENUE  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was DECANDIA CLEANUP COMPLETE 4 DRUMS OF SOIL EXCAVATED, ONLY REC'VD DISPOSAL MANIFESTS FOR 1 DRUM. NO FURTHER ACTION,NO DISPOSAL LETTER SENT"  
  
Remarks: "RIGHT NEXT TO PETS WAREHOUSE - OIL FROM THEIR COMPRESSORS IS COMING OUT OF A PIPE THAT GOES RIGHT TO THE GROUND - THERE IS A 10 FT AREA CONTAMINATED WITH OIL, AS WELL AS THE SIDE OF THE BUILDING. THERE IS ALSO A DEAD BUSH THERE."

**All Materials:**

Site ID: 87163  
Operable Unit ID: 1051821  
Operable Unit: 01  
Material ID: 330700  
Material Code: 9999  
Material Name: other -  
Case No.: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

OCEAN ROCK & DIVING (Continued)

S102661222

Material FA: Other  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

A8  
NNE  
< 1/8  
0.057 mi.  
302 ft.

E&B INDUSTRIAL CLEANING  
LAKELAND AVE & SUNRISE HWY  
BOHEMIA, NY

NY Spills S102095319  
N/A

Site 3 of 3 in cluster A

Relative:  
Higher  
Actual:  
40 ft.

SPILLS:

Facility ID: 8806243  
Facility Type: ER  
Spill Number: 8806243  
DER Facility ID: 155953  
Site ID: 186589  
DEC Region: 1  
Closed Date: 1989-05-04  
Spill Cause: Deliberate  
Spill Class: Not reported  
SWIS: 5228  
Spill Date: 1988-10-25  
Investigator: CXONEILL  
Referred To: Not reported  
Reported to Dept: 1988-10-25  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: Police Department  
Cleanup Ceased: 1989-05-04  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1988-10-26  
Spill Record Last Update: 2006-06-05  
Spiller Name: Not reported  
Spiller Company: E&B INDUSTRIAL CLEANING  
Spiller Address: 50 NORTH BROOK AVENUE  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was O'NEILL FD 05/02/89: TOWN OF ISLIP PERSONNEL WOULD NOT RETURN CALLS REGARDING SAMPLE OF SOIL COLLECTED BY TOWN PERSONNEL.O'NEILL RE-INSPECTED SITE ON 5/1/89 AREA CLEANED UP,NO SOIL CONTAMINATION EVIDENT. FILE HAS BEEN DESTROYED ACCORDING TO STATE ARCHIVE AND RECORD ADMINISTRATOR RETENTION/DISPOSAL PROCEDURES "  
Remarks: "TOWN ENVIRONMENTAL UNIT WITNESSED DUMPING & STOPPED VEHICLE"

All Materials:

Site ID: 186589  
Operable Unit ID: 921399  
Operable Unit: 01  
Material ID: 454593



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**E&B INDUSTRIAL CLEANING (Continued)**

**S102095319**

Material Code: 1133A  
Material Name: industrial sludge  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**B9  
NE  
< 1/8  
0.070 mi.  
372 ft.**

**FAIRFIELD/SAYVILLE COMMONS  
400 ADAMS WAY/LAKELAND AVENUE  
SAYVILLE, NY**

**NY Spills S118707483  
N/A**

**Site 1 of 2 in cluster B**

**Relative:  
Higher  
Actual:  
46 ft.**

**SPILLS:**

Facility ID: 1604708  
Facility Type: ER  
Spill Number: 1604708  
DER Facility ID: 485273  
Site ID: 531223  
DEC Region: 1  
Closed Date: 2016-08-09  
Spill Cause: Equipment Failure  
Spill Class: C4  
SWIS: 5228  
Spill Date: 2016-08-09  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2016-08-09  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: Local Agency  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2016-08-09  
Spill Record Last Update: 2016-09-07  
Spiller Name: Not reported  
Spiller Company: JET SANITATION  
Spiller Address: 228 BLYDENBURG RD  
Spiller Company: 999  
Contact Name: PETER RITTER  
DEC Memo: \*\*\*\*SAME AS 1604699 (REPORTED BY A CITIZEN)- SEE IT FOR DETAILS\*\*\* DR  
08/09/16 1210 Hrs (A): Called Ritter- informed him of the above  
number. 08/09/16 1210 Hrs (B): He said a HazMat member is on scene  
and confirms that it appears only about 10gal of fluid was involved  
and that only the roadway was impacted. Jet will clean up the  
spillage today, and HazMat does not feel a DEC response is necessary  
at this time. 08/09/16 1210 Hrs (C): DEC directed the Town to call  
back should the situation change. DR"  
Remarks: "The spill was over asphalt. The cleanup is pending"



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRFIELD/SAYVILLE COMMONS (Continued)**

**S118707483**

All Materials:

Site ID: 531223  
Operable Unit ID: 1280005  
Operable Unit: 01  
Material ID: 2285103  
Material Code: 0010  
Material Name: hydraulic oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 10.00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**B10  
NE  
< 1/8  
0.070 mi.  
372 ft.**

**FAIRFIELD/SAYVILLE COMMONS  
400 ADAMS WAY/LAKELAND AVENUE  
SAYVILLE, NY**

**NY Spills S118707474  
N/A**

**Site 2 of 2 in cluster B**

**Relative:  
Higher  
Actual:  
46 ft.**

**SPILLS:**

Facility ID: 1604699  
Facility Type: ER  
Spill Number: 1604699  
DER Facility ID: 485273  
Site ID: 531214  
DEC Region: 1  
Closed Date: 2016-08-09  
Spill Cause: Equipment Failure  
Spill Class: C4  
SWIS: 5228  
Spill Date: 2016-08-06  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2016-08-09  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: Citizen  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2016-08-09  
Spill Record Last Update: 2016-09-07  
Spiller Name: Not reported  
Spiller Company: JET SANITATION  
Spiller Address: 228 BLYDENBURG RD  
Spiller Company: 999  
Contact Name: LINDA WARD  
DEC Memo: "ROADWAY AND PARKING LOT \*\*\*SAME AS 1604708 (REPORTED BY ISLIP TOWN HAZMAT)- SEE IT FOR DETAILS\*\*\* DR 08/09/16 1040 Hrs: Called Islip Town HazMat (631-467-3279), explained the situation, informed them there were no DEC inspectors readily available, and asked whether



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRFIELD/SAYVILLE COMMONS (Continued)**

**S118707474**

they could respond and call back with an update. DR 08/09/16 1045 Hrs: Checked Google Earth and the internet- THE NAME AND ADDRESS IS APPARENTLY INACCURATE, AS 400 LAKE LAND IS A VFW HALL. There is a housing complex (SAYVILLE COMMONS) at the SE corner of Sunrise Highway and Lakeland, and the office is at 400 ADAMS WAY in the complex. DR 08/09/16 1055 Hrs: Left message for Ward- please clarify the address. DR 08/09/16 1055 Hrs: Called Islip Town Hazmat- informed them of the apparent inaccurate address. They had also noticed this, suspected the correct location to be Sayville Commons, and said they have an inspector who lives in that complex responding from Bay Shore. They also said this just changed ownership to FAIRFIELD KNOLLS AT SAYVILLE . DR 8/9/16 1340 Hrs: RJP took call from Linda Ward. Correct address is 400 Adams way, entrance to complex off Lakeland near VFD. Also she stated HazMat claimed this material is cooking oil and no cleanup is warranted. RJP."

Remarks: "spilled to asphalt in every driveway that the truck backed into - clean up pending"

**All Materials:**

Site ID: 531214  
Operable Unit ID: 1279996  
Operable Unit: 01  
Material ID: 2285094  
Material Code: 0010  
Material Name: hydraulic oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**C11  
WNW  
< 1/8  
0.094 mi.  
497 ft.**

**JFA COLLISION  
1 ARTIC AVE  
BOHEMIA, NY 11716**

**NY UST U003538708  
N/A**

**Site 1 of 2 in cluster C**

**Relative:  
Higher  
Actual:  
48 ft.**

**SUFFOLK CO. UST:**  
Region: SUFFOLK  
Site Ref#: 10017  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

**Facility Info:**

Site Ref#: 10017  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: JFA COLLISION  
Storage Owner Address: 1 ARTIC AVE  
Storage Owner City: BOHEMIA  
Storage Owner State: NY  
Storage Owner Zip: 11716



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JFA COLLISION (Continued)**

**U003538708**

Tank Info:

Facility ID: 10017  
Facility Reference #: 14315  
Official Use: Removed Tank. 90  
Township: ISLIP  
Tax Map No: 0500 191.00 002 062.000  
Region: SUFFOLK  
Permit to Operate: Not reported

Tank ID: 1  
Tank Key: 29105  
Installed: Not reported  
Capacity: 0000000275  
Substance: WASTE OIL  
Date Removed: 060890  
Construction: Not reported  
Dispenser: Not reported  
Fill Type: Not reported  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000000275  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: 060890  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

**C12**  
**WNW**  
**< 1/8**  
**0.098 mi.**  
**518 ft.**

**PARK SUNOCO**  
**4850 SUNRISE HWY**  
**SAYVILLE, NY 11782**  
**Site 2 of 2 in cluster C**

**EDR Hist Auto 1021144916**  
**N/A**

**Relative:**  
**Higher**

EDR Hist Auto

**Actual:**  
**48 ft.**

Year: Name:  
2001 PARK SUNOCO  
2002 PARK SUNOCO  
2003 PARK SUNOCO  
2004 PARK SUNOCO  
2005 PARK SUNOCO  
2006 PARK SUNOCO  
2007 PARK SUNOCO

Type:  
Gasoline Service Stations  
Gasoline Service Stations  
Gasoline Service Stations  
Gasoline Service Stations  
Gasoline Service Stations, NEC  
Gasoline Service Stations, NEC  
Gasoline Service Stations, NEC



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARK SUNOCO (Continued)**

**1021144916**

2008 PARK SUNOCO  
2009 PARK SUNOCO  
2010 PARK SUNOCO  
2011 PARK SUNOCO

Gasoline Service Stations, NEC  
Gasoline Service Stations, NEC  
Gasoline Service Stations, NEC  
Gasoline Service Stations, NEC

**D13  
NNW  
< 1/8  
0.098 mi.  
520 ft.**

**TRI VENTURE CONST CO  
SUNRISE HIGHWAY  
BOHEMIA, NY**

**NY Spills S102097081  
N/A**

**Site 1 of 4 in cluster D**

**Relative:  
Higher**

**Actual:  
51 ft.**

**SPILLS:**

Facility ID: 9005927  
Facility Type: ER  
Spill Number: 9005927  
DER Facility ID: 365503  
Site ID: 248558  
DEC Region: 1  
Closed Date: 1990-09-14  
Spill Cause: Housekeeping  
Spill Class: C3  
SWIS: 5228  
Spill Date: 1990-08-29  
Investigator: LUCE  
Referred To: Not reported  
Reported to Dept: 1990-08-29  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Affected Persons  
Cleanup Ceased: 1990-09-14  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1990-08-31  
Spill Record Last Update: 2009-07-13  
Spiller Name: MIKE OLAFSSON  
Spiller Company: EXXON  
Spiller Address: Not reported  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "TYREE WILL DO CLEANUP TOMORROW AM, REQUEST DEC INSPECTION, DRYWELL IS FED BY FLOOR DRAINS FROM WORKSHOP, M MIRZA SAID EXXON MIGHT HAVE TO REMOVE SOIL IN ADDITION TO CONT WATER, WILL ALSO HAVE SHUT DOWN TRAPS LEADING INTO DRYWELL CLEANUP SATISFACTORY"

**Remarks:** "DRYWELL OVERFLOWED, OIL DEPOSITED IN BOTTOM SPILLED OUT. TYREE CLEANING UP."

**All Materials:**

Site ID: 248558  
Operable Unit ID: 943463  
Operable Unit: 01  
Material ID: 433405  
Material Code: 0022  
Material Name: waste oil/used oil  
Case No.: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TRI VENTURE CONST CO (Continued)**

**S102097081**

Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

Site ID: 248558  
Operable Unit ID: 943463  
Operable Unit: 01  
Material ID: 433406  
Material Code: 1887A  
Material Name: water purifying tablets  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: Not reported  
Recovered: .00  
Oxygenate: Not reported

Facility ID: 9712676  
Facility Type: ER  
Spill Number: 9712676  
DER Facility ID: 275675  
Site ID: 248572  
DEC Region: 1  
Closed Date: 1998-09-23  
Spill Cause: Deliberate  
Spill Class: C3  
SWIS: 5200  
Spill Date: 1998-02-12  
Investigator: BMFORD  
Referred To: Not reported  
Reported to Dept: 1998-02-12  
CID: 999  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Citizen  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1998-02-12  
Spill Record Last Update: 2003-08-29  
Spiller Name: Not reported  
Spiller Company: TRI VENTURE CONST CO  
Spiller Address: SUNRISE HIGHWAY  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
FORD SEE ALSO 97-12382, NO ADDITIONAL ACTIONS NECESSARY, DISPOSAL  
RECPTS REC'VD"

Remarks: "caller reports a chronic problem with the company dumping drums &  
oil in the yard. ground is reportedly covered with oil."



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TRI VENTURE CONST CO (Continued)

S102097081

All Materials:

Site ID: 248572  
Operable Unit ID: 1058891  
Operable Unit: 01  
Material ID: 327270  
Material Code: 0015  
Material Name: motor oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

Site ID: 248572  
Operable Unit ID: 1058891  
Operable Unit: 01  
Material ID: 327269  
Material Code: 0010  
Material Name: hydraulic oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

D14  
NNW  
< 1/8  
0.098 mi.  
520 ft.  
CUMBERLAND FARMS # 70209  
4909 SUNRISE HWY  
BOHEMIA, NY 11716  
Site 2 of 4 in cluster D

NY LTANKS  
NY Spills  
S104652210  
N/A

Relative:  
Higher  
Actual:  
51 ft.

LTANKS:

Facility ID: 1202591  
Site ID: 465364  
Closed Date: 2012-10-19  
Spill Number: 1202591  
Spill Date: 2012-06-15  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station or other PBS Facility  
Spill Class: B3  
Cleanup Ceased: Not reported  
SWIS: 5228  
Investigator: hmcirrit  
Referred To: Not reported  
Reported to Dept: 2012-06-15  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
Meets Standard: False  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 2012-06-15



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Spill Record Last Update: 2012-11-29  
Spiller Name: AARON  
Spiller Company: CUMBERLAND FARMS  
Spiller Address: 4909 SUNRISE HIGHWAY  
Spiller County: 999  
Spiller Contact: AARON  
Spiller Phone: (508) 270-4446  
Spiller Extension: Not reported  
DEC Region: 1  
DER Facility ID: 298857  
DEC Memo: "OUTWALL OF TANK 06/15/12 1240 Hrs: Checked database- there does not appear to be any active spills here. DR 06/15/12 1245 Hrs: Left message for Cumberland. DR 06/15/12 1250 Hrs (A): Aaron called- THIS WAS AN ANNUAL, ROUTINE TEST OF AN 8,000GAL TANK BY TANKNOLOGY. He was not certain whether any other tanks are being tested. 06/15/12 1250 Hrs (B): Upon removing the interstitial leak detection probes so they could be inspected they were noticed to be damp with gasoline. 06/15/12 1250 Hrs (C): TMC ENVIRONMENTAL is removing the product from the interstitial space at this time. 06/15/12 1250 Hrs (D): TYREE is on site to repair and reinstall the probes. If they go into alarm mode additional actions will be taken. DR 6/19/12: 10:45 T/C to Aaron @ Cumberland Farms. Tank did pass yesterdays interstitial test but it was not an official tank test. He will put a report together which will include the passing test result from an official tank test. He thinks the product which could have been water got into the interstitial space through a loose bung."  
Remarks: "gasoline found in outerwall of tank during testing"

**All TTF:**

Facility ID: 1202591  
Spill Number: 1202591  
Spill Tank Test: 2494031  
Site ID: 465364  
Tank Number: UNKNOWN  
Tank Size: 0  
Material: 0009  
EPA UST: True  
UST: True  
Cause: 06  
Source: 01  
Test Method: 01  
Test Method 2: Petro-Tite/Petro Comp  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: DJFARRAR  
Last Modified Date: Not reported

**All Materials:**

Site ID: 465364  
Operable Unit ID: 1215386  
Operable Unit: 01  
Material ID: 2213512  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Units: Not reported  
Recovered: Not reported  
Oxygenate: Not reported

**SPILLS:**

Facility ID: 9202956  
Facility Type: ER  
Spill Number: 9202956  
DER Facility ID: 252881  
Site ID: 313633  
DEC Region: 1  
Closed Date: 1993-02-11  
Spill Cause: Unknown  
Spill Class: B3  
SWIS: 5200  
Spill Date: 1992-05-29  
Investigator: KMYAGER  
Referred To: Not reported  
Reported to Dept: 1992-06-10  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Local Agency  
Cleanup Ceased: 1993-02-11  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1992-06-11  
Spill Record Last Update: 1993-02-11  
Spiller Name: Not reported  
Spiller Company: EXXON S/S  
Spiller Address: Not reported  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
DEROSA "  
Remarks: "SITE ASSESSMENT SHOWS: SOIL 189 PPB, VOC'S WATER 5.5 PPB VOC'S"

**All Materials:**

Site ID: 313633  
Operable Unit ID: 966972  
Operable Unit: 01  
Material ID: 410783  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

Facility ID: 0609728



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Facility Type: ER  
Spill Number: 0609728  
DER Facility ID: 323805  
Site ID: 374026  
DEC Region: 1  
Closed Date: 2006-11-27  
Spill Cause: Human Error  
Spill Class: C2  
SWIS: 5228  
Spill Date: 2006-11-26  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2006-11-26  
CID: 76  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2006-11-27  
Spill Record Last Update: 2008-10-16  
Spiller Name: Not reported  
Spiller Company: UNKNOWN CUSTOMER  
Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: HARCHIAN  
DEC Memo: "11/27/06 11:30 TELECON WITH LORRAINE FROM CUMBERLAND FARMS, APPROX 5 GALS OF GASOLINE SPILLED ONTO CONCRETE PAD. NO STORM DRAINS, DRYWELLS AND PRIVATE WELLS AFFECTED. ATTENDANT APPLIED SPEEDI DRI TO ABSORB MATERIALS. AREA WAS SWEEPED AND ALL IMPACTED SPEEDI DRI WAS REMOVED FROM SITE, THE NOZZLE HAS BEEN FIXED BY TYREE. NO ADDITIONAL ACTIONS REQUIRED BY CUMBERLAND FARMS NO RESPONSE"  
  
Remarks: "CALLER REPORTS SPILL DUE TO CUSTOMER DEFEATING THE SAFETY MECHANISM ON GAS SUPPLY NOZZLE BY PLACING GAS CAP INTO NOZZLE HANDLE. SPILL CONTAINED TO CONCRETE PAD. SPILL WAS CLEANED UP USING SPEEDY DRY."  
  
All Materials:  
Site ID: 374026  
Operable Unit ID: 1131711  
Operable Unit: 01  
Material ID: 2121424  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 5.00  
Units: G  
Recovered: 5.00  
Oxygenate: Not reported  
  
Facility ID: 1204916  
Facility Type: ER  
Spill Number: 1204916



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

DER Facility ID: 350165  
Site ID: 467822  
DEC Region: 1  
Closed Date: 2013-02-08  
Spill Cause: Other  
Spill Class: D4  
SWIS: 5228  
Spill Date: 2012-08-15  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2012-08-15  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2012-08-15  
Spill Record Last Update: 2013-02-20  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS  
Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: MELISSA GLIDDEN  
DEC Memo: "\*\*\*\*SEVERE THUNDERSTORM EARLIER THIS DATE\*\*\* DR 08/15/12 1455 Hrs:  
Left message for Glidden- please confirm this involved water, with  
possibly some gas, in the sump(s) of the tanks. DR"  
Remarks: "Tyree on rte for removal"

**All Materials:**

Site ID: 467822  
Operable Unit ID: 1217763  
Operable Unit: 01  
Material ID: 2235440  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: Not reported  
Units: Not reported  
Recovered: Not reported  
Oxygenate: Not reported

Site ID: 467822  
Operable Unit ID: 1217763  
Operable Unit: 01  
Material ID: 2216067  
Material Code: 9999  
Material Name: other - liquid in sump  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: Not reported  
Recovered: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Oxygenate: Not reported

Facility ID: 0712416

Facility Type: ER

Spill Number: 0712416

DER Facility ID: 323805

Site ID: 394025

DEC Region: 1

Closed Date: 2008-04-15

Spill Cause: Other

Spill Class: D4

SWIS: 5228

Spill Date: 2008-02-25

Investigator: Unassigned

Referred To: Not reported

Reported to Dept: 2008-02-25

CID: 408

Water Affected: Not reported

Spill Source: Gasoline Station or other PBS Facility

Spill Notifier: Responsible Party

Cleanup Ceased: Not reported

Cleanup Meets Std: False

Last Inspection: Not reported

Recommended Penalty: False

UST Trust: Not reported

Remediation Phase: 0

Date Entered In Computer: 2008-02-25

Spill Record Last Update: 2009-04-11

Spiller Name: MELLISSA GLIDDEN

Spiller Company: CUMBERLAND #70209

Spiller Address: 4909 SUNRISE HWY

Spiller Company: 001

Contact Name: MELLISSA GLIDDEN

DEC Memo: ""

Remarks: "WATER IN SUMP; WEATHER RELATED; TYREE WILL HANDLE CLEAN UP;"

**All Materials:**

Site ID: 394025

Operable Unit ID: 1150972

Operable Unit: 01

Material ID: 2141626

Material Code: 0064A

Material Name: unknown material

Case No.: Not reported

Material FA: Other

Quantity: .00

Units: G

Recovered: .00

Oxygenate: Not reported

Facility ID: 0805016

Facility Type: ER

Spill Number: 0805016

DER Facility ID: 323805

Site ID: 402044

DEC Region: 1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Closed Date: 2008-07-31  
Spill Cause: Unknown  
Spill Class: D4  
SWIS: 5228  
Spill Date: 2008-07-31  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2008-07-31  
CID: 406  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: Not reported  
Remediation Phase: 0  
Date Entered In Computer: 2008-08-01  
Spill Record Last Update: 2009-04-01  
Spiller Name: MELISSA GLIDEN  
Spiller Company: CUMBERLAND FARMS #70209  
Spiller Address: 4909 SUNRISE HWY  
Spiller Company: 001  
Contact Name: MELISSA GLIDEN  
DEC Memo: ""  
Remarks: "PBS No: 5-0059 -PBS No. not found in UIS, may be invalid. Found water in the sump. Phoenix Environmental will be pumping it out."

**All Materials:**

Site ID: 402044  
Operable Unit ID: 1158815  
Operable Unit: 01  
Material ID: 2149902  
Material Code: 0064A  
Material Name: unknown material  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: G  
Recovered: .00  
Oxygenate: Not reported

Facility ID: 0804031  
Facility Type: ER  
Spill Number: 0804031  
DER Facility ID: 350165  
Site ID: 400865  
DEC Region: 1  
Closed Date: 2008-08-07  
Spill Cause: Other  
Spill Class: D4  
SWIS: 5228  
Spill Date: 2008-07-08  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2008-07-08



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

CID: 444  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: Not reported  
Remediation Phase: 0  
Date Entered In Computer: 2008-07-08  
Spill Record Last Update: 2009-04-01  
Spiller Name: MELLISSA GLIDDEN  
Spiller Company: CUMBERLAND  
Spiller Address: 4909 SUNRISE HWY  
Spiller Company: 001  
Contact Name: MELLISSA GLIDDEN  
DEC Memo: ""  
Remarks: "PHOENIX TO PUMP OUT WATER"

All Materials:

Site ID: 400865  
Operable Unit ID: 1157678  
Operable Unit: 01  
Material ID: 2148707  
Material Code: 0064A  
Material Name: unknown material  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

Facility ID: 0811344  
Facility Type: ER  
Spill Number: 0811344  
DER Facility ID: 298857  
Site ID: 408919  
DEC Region: 1  
Closed Date: 2009-02-04  
Spill Cause: Other  
Spill Class: C4  
SWIS: 5228  
Spill Date: 2009-01-14  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2009-01-14  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Remediation Phase: 0  
Date Entered In Computer: 2009-01-14  
Spill Record Last Update: 2009-04-01  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS # 70209  
Spiller Address: 4909 SUNRISE HWY  
Spiller Company: 999  
Contact Name: MELISSA GLIDDEN  
DEC Memo: ""  
Remarks: "WATER IN THE SUMP PUMP OUT WILL BE DONE BY PHOENIX ENVIRONMETNAL."

**All Materials:**

Site ID: 408919  
Operable Unit ID: 1165425  
Operable Unit: 01  
Material ID: 2156832  
Material Code: 9999  
Material Name: other - WATER  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: G  
Recovered: Not reported  
Oxygenate: Not reported

Facility ID: 0001096  
Facility Type: ER  
Spill Number: 0001096  
DER Facility ID: 298857  
Site ID: 223874  
DEC Region: 1  
Closed Date: 2005-08-23  
Spill Cause: Other  
Spill Class: B3  
SWIS: 5228  
Spill Date: 2000-04-19  
Investigator: CAENGELH  
Referred To: Not reported  
Reported to Dept: 2000-04-27  
CID: 396  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2000-04-27  
Spill Record Last Update: 2017-11-06  
Spiller Name: STEVE BELIM (TOSCO)  
Spiller Company: EXXON MOBIL  
Spiller Address: Not reported  
Spiller Company: 001  
Contact Name: STEVE DELIM  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

ENGELHARDT 1 BORING - 530 MG/L MTBE & LESSER BTEX CONCENTRATIONS -  
REPORT WILL BE FORWARDED UPON COMPLETION. 6/2/00 FILE REASSIGNED  
8/21/00 FILE REASSIGNED 3 SOIL BORINGS -CLEAN, 1 GW SAMPLE CLEAN  
EXCEPT FOR 530 PPB MTBE"

Remarks: "Lab results showed ground water contamination. Under investigation  
with intent to clean up."

All Materials:

Site ID: 223874  
Operable Unit ID: 822878  
Operable Unit: 01  
Material ID: 289323  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

Facility ID: 9009311  
Facility Type: ER  
Spill Number: 9009311  
DER Facility ID: 298857  
Site ID: 223875  
DEC Region: 1  
Closed Date: 1991-02-07  
Spill Cause: Other  
Spill Class: B3  
SWIS: 5228  
Spill Date: 1990-11-14  
Investigator: KMYAGER  
Referred To: Not reported  
Reported to Dept: 1990-11-26  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other  
Cleanup Ceased: 1991-02-07  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: True  
Remediation Phase: 0  
Date Entered In Computer: 1990-11-30  
Spill Record Last Update: 2009-07-23  
Spiller Name: Not reported  
Spiller Company: EXXON S/S  
Spiller Address: Not reported  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
DEROSA 1/18 SPOKE WITH DAVE OBRIG, NO FURTHER ACTION EXCAVATION  
BACKFILLED "

Remarks: "TANK REMOVAL, REMOVED 80 YDS CONT SOIL, SCHD ON SITE"



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

All Materials:

Site ID: 223875  
Operable Unit ID: 949808  
Operable Unit: 01  
Material ID: 429535  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

Facility ID: 0810476  
Facility Type: ER  
Spill Number: 0810476  
DER Facility ID: 298857  
Site ID: 407997  
DEC Region: 1  
Closed Date: 2009-01-22  
Spill Cause: Housekeeping  
Spill Class: C4  
SWIS: 5228  
Spill Date: 2008-12-17  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2008-12-17  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2008-12-17  
Spill Record Last Update: 2009-04-01  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS  
Spiller Address: 4909 SUNRISE HWY  
Spiller Company: 999  
Contact Name: MELISSA GLIDDEN  
DEC Memo: ""  
Remarks: "Caller states there is water in the spill buckets. Phoenix environmental is enroute for clean up."

All Materials:

Site ID: 407997  
Operable Unit ID: 1164529  
Operable Unit: 01  
Material ID: 2155908  
Material Code: 0060A  
Material Name: wastewater



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: Not reported  
Recovered: Not reported  
Oxygenate: Not reported

Facility ID: 0904734  
Facility Type: ER  
Spill Number: 0904734  
DER Facility ID: 350165  
Site ID: 416940  
DEC Region: 1  
Closed Date: 2010-03-22  
Spill Cause: Other  
Spill Class: C4  
SWIS: 5228  
Spill Date: 2009-07-23  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2009-07-23  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2009-07-23  
Spill Record Last Update: 2010-04-29  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS # 70209  
Spiller Address: 4909 SUNRISE HWY  
Spiller Company: 999  
Contact Name: MELISSA GLIDDEN  
DEC Memo: "\*\*\*\*HEAVY RAIN 21-22JUL09\*\*\* DR"  
Remarks: "WATER IN THE SUMP PUMP OUT WILL BE DONE BY PHOENIX."

All Materials:  
Site ID: 416940  
Operable Unit ID: 1173199  
Operable Unit: 01  
Material ID: 2165093  
Material Code: 9999  
Material Name: other - WATER  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: G  
Recovered: Not reported  
Oxygenate: Not reported

Facility ID: 0902645



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Facility Type: ER  
Spill Number: 0902645  
DER Facility ID: 298857  
Site ID: 414702  
DEC Region: 1  
Closed Date: 2009-07-17  
Spill Cause: Other  
Spill Class: D5  
SWIS: 5228  
Spill Date: 2009-06-04  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2009-06-04  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2009-06-04  
Spill Record Last Update: 2009-07-20  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS  
Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: CALLER  
DEC Memo: ""  
Remarks: "Water in the sumps."

**All Materials:**

Site ID: 414702  
Operable Unit ID: 1171081  
Operable Unit: 01  
Material ID: 2162869  
Material Code: 0060A  
Material Name: wastewater  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: G  
Recovered: Not reported  
Oxygenate: Not reported

Facility ID: 0913512  
Facility Type: ER  
Spill Number: 0913512  
DER Facility ID: 323805  
Site ID: 426460  
DEC Region: 1  
Closed Date: 2010-08-17  
Spill Cause: Other  
Spill Class: D4  
SWIS: 5228



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS # 70209 (Continued)**

**S104652210**

Spill Date: 2010-03-23  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2010-03-23  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2010-03-23  
Spill Record Last Update: 2010-10-13  
Spiller Name: MELISSA GLIDDEN  
Spiller Company: CUMBERLAND FARMS # 70209  
Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: MELISSA GLIDDEN  
DEC Memo: "\*\*\*\*HEAVY RAIN OVERNIGHT\*\*\* DR"  
Remarks: "WATER IN THE SUMP PUMP OUT WILL BE DONE BY PHOENIX."

**All Materials:**

Site ID: 426460  
Operable Unit ID: 1182141  
Operable Unit: 01  
Material ID: 2176297  
Material Code: 9999  
Material Name: other - WATER  
Case No.: Not reported  
Material FA: Other  
Quantity: Not reported  
Units: G  
Recovered: Not reported  
Oxygenate: Not reported

**D15  
NNW  
< 1/8  
0.098 mi.  
520 ft.**

**ED MIR SERVICE STATION  
4909 SUNRISE HIGHWAY  
BOHEMIA, NY 11716**

**Site 3 of 4 in cluster D**

**EDR Hist Auto 1021466391  
N/A**

**Relative:  
Higher**

EDR Hist Auto

**Actual:  
51 ft.**

Year:	Name:	Type:
1982	ED MIR SERVICE STATION	Gasoline Service Stations
1983	ED MIR SERVICE STATION	Gasoline Service Stations
1985	ED MIR SERVICE STATION	Gasoline Service Stations
1986	ED MIR SERVICE STATION	Gasoline Service Stations
1987	ED MIR SERVICE STATION	Gasoline Service Stations
1988	ED MIR SERVICE STATION	Gasoline Service Stations
1989	ED MIR SERVICE STATION	Gasoline Service Stations
1990	ED MIR SERVICE STATION	Gasoline Service Stations
1991	ED MIR SERVICE STATION	Gasoline Service Stations
1992	ED MIR SERVICE STATION	Gasoline Service Stations



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ED MIR SERVICE STATION (Continued)**

**1021466391**

1993	ED MIR SERVICE STATION	Gasoline Service Stations
1994	ED MIR SERVICE STATION	Gasoline Service Stations
1995	ED MIR SERVICE STATION	Gasoline Service Stations
2002	EDMIR SERVICE STATION	Gasoline Service Stations
2002	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2003	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2004	KINGS COMPLETE AUTO SERVICE	General Automotive Repair Shops
2004	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2005	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2005	KINGS COMPLETE AUTO SERVICE	General Automotive Repair Shops
2006	KINGS COMPLETE AUTO SERVICE	General Automotive Repair Shops
2006	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2007	KINGS COMPLETE AUTO SERVICE	General Automotive Repair Shops
2007	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2008	NICOS WAY AUTOMOTIVE	Automotive Repair Shops, NEC
2008	KINGS COMPLETE AUTO SERVICE	General Automotive Repair Shops
2008	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2009	NICOS WAY AUTOMOTIVE	Automotive Repair Shops, NEC
2009	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2010	NICOS WAY AUTOMOTIVE	Automotive Repair Shops, NEC
2010	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2011	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2011	NICOS WAY AUTOMOTIVE	Automotive Repair Shops, NEC
2012	NICOS WAY AUTOMOTIVE	Automotive Repair Shops, NEC
2012	GULF GAS	Gasoline Service Stations, NEC
2012	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2013	GULF GAS	Gasoline Service Stations, NEC
2013	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2014	BOHEMIA DEVELOPMENT CORP	Gasoline Service Stations
2014	GULF GAS	Gasoline Service Stations, NEC
2014	CONCEPT AUTOMOTIVE	Automotive Repair Shops, NEC

**D16**  
**NNW**  
**< 1/8**  
**0.098 mi.**  
**520 ft.**

**BP PRODUCTS NORTH AMERICA INC - BP 66392**  
**4909 SUNRISE HWY**  
**BOHEMIA, NY 11716**

**RCRA-SQG**  
**NY UST**  
**NY MANIFEST**

**1000457607**  
**NYD986928687**

**Site 4 of 4 in cluster D**

**Relative:**  
**Higher**  
**Actual:**  
**51 ft.**

RCRA-SQG:

Date form received by agency: 07/11/2017

Facility name: BP PRODUCTS NORTH AMERICA INC - BP 66392

Facility address: 4909 SUNRISE HWY  
BOHEMIA, NY 11716

EPA ID: NYD986928687

Mailing address: PO BOX 80249  
RANCHO SANTA MARGARITA, CA 92688

Contact: JOHN MAHONEY

Contact address: PO BOX 6038  
ARTESIA, CA 90702

Contact country: US

Contact telephone: 973-392-6150

Contact email: JOHN.MAHONEY@BP.COM

EPA Region: 02

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: TOSCO  
Owner/operator address: PO BOX 52085  
PHOENIX, AZ 85072  
Owner/operator country: US  
Owner/operator telephone: 602-728-8000  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/2001  
Owner/Op end date: Not reported

Owner/operator name: NO NAME FOUND  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 09/10/2003  
Owner/Op end date: Not reported

Owner/operator name: BP PRODUCTS NORTH AMERICA INC  
Owner/operator address: PO BOX 6038  
ARTESIA, CA 90702  
Owner/operator country: US  
Owner/operator telephone: 360-526-3917  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 06/26/2017  
Owner/Op end date: Not reported

Owner/operator name: NO NAME FOUND  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 09/10/2003  
Owner/Op end date: Not reported

Owner/operator name: BP PRODUCTS NORTH AMERICA INC  
Owner/operator address: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 06/26/2017  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D018  
. Waste name: BENZENE

**Historical Generators:**

Date form received by agency: 01/01/2007  
Site name: EXXON DIV OF CFI #70209  
Classification: Not a generator, verified

Date form received by agency: 01/01/2006  
Site name: EXXON DIV OF CFI #70209  
Classification: Not a generator, verified

Date form received by agency: 10/01/2004  
Site name: EXXON DIV OF CFI #70209  
Classification: Small Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

Date form received by agency: 08/08/2001  
Site name: TOSCO #34638  
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000  
. Waste name: Not Defined

. Waste code: D001  
. Waste name: IGNITABLE WASTE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

- . Waste code: D006
- . Waste name: CADMIUM
  
- . Waste code: D007
- . Waste name: CHROMIUM
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D018
- . Waste name: BENZENE
  
- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 07/08/1999  
Site name: TOSCO #34638  
Classification: Not a generator, verified

Date form received by agency: 02/25/1992  
Site name: EXXON #31720  
Classification: Large Quantity Generator

Date form received by agency: 10/24/1990  
Site name: TOSCO #34638  
Classification: Large Quantity Generator



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Violation Status: No violations found

**SUFFOLK CO. UST:**

Region: SUFFOLK  
Site Ref#: 09474  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

**Facility Info:**

Site Ref#: 09474  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: CUMBERLAND FARMS  
Storage Owner Address: 777 DEDHAM ST  
Storage Owner City: CANTON  
Storage Owner State: MA  
Storage Owner Zip: 02021

**Tank Info:**

Facility ID: 09474  
Facility Reference #: 12578  
Official Use: Removed Tank. 90  
Township: ISLIP  
Tax Map No: 0500 256.00 002 045.000  
Region: SUFFOLK  
Permit to Operate: Not reported

Tank ID: 1  
Tank Key: 26374  
Installed: 77  
Capacity: 0000008000  
Substance: GASOLINE  
Date Removed: 111490  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000008000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Fill: GRAVITY  
Date Removed: 111490  
Year Installed: 77  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 2  
Tank Key: 26375  
Installed: 81  
Capacity: 0000010000  
Substance: GASOLINE  
Date Removed: 111490  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000010000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 111490  
Year Installed: 81  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 3  
Tank Key: 26376  
Installed: 81  
Capacity: 0000006000  
Substance: GASOLINE  
Date Removed: 111490  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000006000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 111490  
Year Installed: 81  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 4  
Tank Key: 26377  
Installed: 81  
Capacity: 0000001000  
Substance: WASTE OIL  
Date Removed: 120998  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 120998  
Year Installed: 81  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 5  
Tank Key: 26378  
Installed: Not reported  
Capacity: 0000001000  
Substance: WASTE OIL  
Date Removed: 010181  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000001000



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010181  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 6  
Tank Key: 26379  
Installed: Not reported  
Capacity: 0000006000  
Substance: GASOLINE  
Date Removed: 010181  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000006000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010181  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 7  
Tank Key: 26380  
Installed: Not reported  
Capacity: 0000006000  
Substance: GASOLINE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Date Removed: 010181  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000006000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010181  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 8  
Tank Key: 26381  
Installed: Not reported  
Capacity: 0000003000  
Substance: GASOLINE  
Date Removed: 010181  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000003000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010181  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Tank ID: 9  
Tank Key: 26382  
Installed: Not reported  
Capacity: 0000001000  
Substance: #2 FUEL OIL  
Date Removed: 010181  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 010181  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 10  
Tank Key: 26383  
Installed: 81  
Capacity: 0000001000  
Substance: #2 FUEL OIL  
Date Removed: Not reported  
Construction: FRP  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: Not reported  
Year Installed: 81  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 11  
Tank Key: 26384  
Installed: 90  
Capacity: 0000012000  
Substance: GASOLINE  
Date Removed: Not reported  
Construction: FRP / FRP  
Dispenser: SUBMERSIBLE  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000012000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: Not reported  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 12  
Tank Key: 26385  
Installed: 90  
Capacity: 0000012000  
Substance: GASOLINE  
Date Removed: Not reported  
Construction: FRP / FRP  
Dispenser: SUBMERSIBLE  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000012000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: Not reported  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 13  
Tank Key: 26386  
Installed: 90  
Capacity: 0000012000  
Substance: GASOLINE  
Date Removed: Not reported  
Construction: FRP / FRP  
Dispenser: SUBMERSIBLE  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000012000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: Not reported  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 14  
Tank Key: 26388  
Installed: 90  
Capacity: 0000001000  
Substance: WASTE OIL  
Date Removed: 042501  
Construction: FRP / FRP  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 042501  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 15  
Tank Key: 26387  
Installed: 90  
Capacity: 0000001000  
Substance: #2 FUEL OIL  
Date Removed: 042501  
Construction: FRP / FRP  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000001000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 042501  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

**NY MANIFEST:**

Country: USA  
EPA ID: NYD986928687  
Facility Status: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Location Address 1: 4909 SUNRISE HIGHWAY  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: BOHEMIA  
Location State: NY  
Location Zip: 11716  
Location Zip 4: Not reported

**NY MANIFEST:**

EPAID: NYD986928687  
Mailing Name: EXXON  
Mailing Contact: EXXON  
Mailing Address 1: P O BOX 2180  
Mailing Address 2: Not reported  
Mailing City: HOUSTON  
Mailing State: TX  
Mailing Zip: 77252  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 0000000000

**NY MANIFEST:**

Document ID: NJA2892444  
Manifest Status: Not reported  
seq: 01  
Year: 1999  
Trans1 State ID: S6993  
Trans2 State ID: Not reported  
Generator Ship Date: 01/06/1999  
Trans1 Recv Date: 01/06/1999  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 01/06/1999  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYD986928687  
Trans1 EPA ID: NJD980772768  
Trans2 EPA ID: Not reported  
TSDF ID 1: NJD991291105  
TSDF ID 2: Not reported  
Manifest Tracking Number: Not reported  
Import Indicator: Not reported  
Export Indicator: Not reported  
Discr Quantity Indicator: Not reported  
Discr Type Indicator: Not reported  
Discr Residue Indicator: Not reported  
Discr Partial Reject Indicator: Not reported  
Discr Full Reject Indicator: Not reported  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: Not reported  
Waste Code: D018 - BENZENE 0.5 MG/L TCLP  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BP PRODUCTS NORTH AMERICA INC - BP 66392 (Continued)**

**1000457607**

Waste Code: Not reported  
Quantity: 00165  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 003  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 01.00

[Click this hyperlink](#) while viewing on your computer to access  
9 additional NY\_MANIFEST: record(s) in the EDR Site Report.

17  
SW  
< 1/8  
0.102 mi.  
539 ft.

**RESIDENCE**  
**220 TERRY ROAD**  
**SAYVILLE, NY**

**NY Spills S110489806**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**43 ft.**

**SPILLS:**

Facility ID: 1005397  
Facility Type: ER  
Spill Number: 1005397  
DER Facility ID: 393694  
Site ID: 438712  
DEC Region: 1  
Closed Date: 2010-08-13  
Spill Cause: Equipment Failure  
Spill Class: C4  
SWIS: 5228  
Spill Date: 2010-08-13  
Investigator: Unassigned  
Referred To: Not reported  
Reported to Dept: 2010-08-13  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Responsible Party  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2010-08-13  
Spill Record Last Update: 2010-12-24  
Spiller Name: FRANK NAGLIERI  
Spiller Company: LIPA/NATIONAL GRID  
Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: FRANK NAGLIERI  
DEC Memo: "As per Frank, less than one gal of transformer oil spilled onto roadway at the above location. -Oil is non-PCB as per quick test. -Waste Recycling responded and cleaned up the spill. -No waterways affected by the spill. No further action required. (WG)"  
Remarks: "cleanup in progress"

All Materials:

Site ID: 438712



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENCE (Continued)**

**S110489806**

Operable Unit ID: 1189362  
Operable Unit: 01  
Material ID: 2184317  
Material Code: 0020A  
Material Name: transformer oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1.00  
Units: G  
Recovered: Not reported  
Oxygenate: Not reported

**E18  
NNE  
< 1/8  
0.107 mi.  
565 ft.**

**UNK  
SUNRISE HWY & LAKELAND AV  
SAYVILLE, NY**

**NY Spills S104786766  
N/A**

**Site 1 of 7 in cluster E**

**Relative:  
Higher**

**SPILLS:**

**Actual:  
38 ft.**

Facility ID: 9506171  
Facility Type: ER  
Spill Number: 9506171  
DER Facility ID: 277808  
Site ID: 93090  
DEC Region: 1  
Closed Date: 1995-08-23  
Spill Cause: Traffic Accident  
Spill Class: D4  
SWIS: 5200  
Spill Date: 1995-08-18  
Investigator: SCHULZ  
Referred To: Not reported  
Reported to Dept: 1995-08-18  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: DEC  
Cleanup Ceased: 1995-08-23  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1995-08-21  
Spill Record Last Update: 1995-08-24  
Spiller Name: Not reported  
Spiller Company: UNK  
Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: Not reported  
DEC Memo: ""  
Remarks: "CASES OF OIL FELL OFF A TRUCK AND SPLIT OPEN, SC HWY SANDED AREA AND SWEPT"

**All Materials:**

Site ID: 93090  
Operable Unit ID: 1020984



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNK (Continued)

S104786766

Operable Unit: 01  
Material ID: 364148  
Material Code: 0022  
Material Name: waste oil/used oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 10.00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

F19  
SW  
< 1/8  
0.111 mi.  
585 ft.

KOSTER KEUNEN INC  
90 BOURNE BLVD  
SAYVILLE, NY 11782

Site 1 of 3 in cluster F

RCRA NonGen / NLR  
FINDS  
ECHO  
NY AIRS  
NY MANIFEST  
NY SPDES

1000400659  
NYD002048593

Relative:  
Higher

Actual:  
44 ft.

RCRA NonGen / NLR:

Date form received by agency: 01/01/2007  
Facility name: KOSTER KEUNEN INC  
Facility address: 90 BOURNE BLVD  
SAYVILLE, NY 11782-3307  
EPA ID: NYD002048593  
Mailing address: PO BOX 383  
SAYVILLE, NY 11782  
Contact: Not reported  
Contact address: PO BOX 383  
SAYVILLE, NY 11782  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: JOHN KOSTER  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: 212-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: JOHN KOSTER  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: 212-555-1212  
Owner/operator email: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 01/01/2006  
Site name: KOSTER KEUNEN INC  
Classification: Not a generator, verified

Date form received by agency: 07/08/1999  
Site name: KOSTER KEUNEN INC  
Classification: Not a generator, verified

Date form received by agency: 05/22/1987  
Site name: KOSTER KEUNEN INC  
Classification: Small Quantity Generator

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: P041
- . Waste name: DIETHYL-P-NITROPHENYL PHOSPHATE (OR) PHOSPHORIC ACID, DIETHYL 4-NITROPHENYL ESTER
- . Waste code: P058
- . Waste name: ACETIC ACID, FLUORO-, SODIUM SALT (OR) FLUOROACETIC ACID, SODIUM SALT
- . Waste code: U002
- . Waste name: 2-PROPANONE (I) (OR) ACETONE (I)
- . Waste code: U019
- . Waste name: BENZENE (I,T)
- . Waste code: U044
- . Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-
- . Waste code: U220
- . Waste name: BENZENE, METHYL- (OR) TOLUENE

Violation Status: No violations found

**FINDS:**

Registry ID: 110004337307

**Environmental Interest/Information System**

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000400659



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

Registry ID: 110004337307  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110004337307>

**AIRS:**

Permit Type: AFR  
Permit Status: Issued  
Issue Date: 07/15/1999  
Expiration Date: Not reported  
County Fips: Not reported  
DEC Id: 1472800205  
Emission Unit Id: Not reported  
Process Id: Not reported  
Contaminant Name/cas: Not reported  
Epa Control Code: Not reported  
Contol Eff: Not reported  
Emissions: Not reported  
Unit: Not reported  
Auth Type Code: 2  
Latitude: 73.103962806  
Longitude: 40.749581744

**NY MANIFEST:**

Country: USA  
EPA ID: NYD002048593  
Facility Status: Not reported  
Location Address 1: 90 BOURNE BLVD  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: SAYVILLE  
Location State: NY  
Location Zip: 11782  
Location Zip 4: Not reported

**NY MANIFEST:**

EPAID: NYD002048593  
Mailing Name: KOSTER KEUNEN  
Mailing Contact: KOSTER KEUNEN  
Mailing Address 1: 90 BOURNE BLVD  
Mailing Address 2: Not reported  
Mailing City: SAYVILLE  
Mailing State: NY  
Mailing Zip: 11782  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 5165890456

**NY MANIFEST:**

Document ID: NYB4943862  
Manifest Status: C  
seq: Not reported  
Year: 1994  
Trans1 State ID: XB4885  
Trans2 State ID: Not reported  
Generator Ship Date: 07/12/1994  
Trans1 Recv Date: 07/12/1994



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

Trans2 Recv Date: / /  
TSD Site Recv Date: 07/13/1994  
Part A Recv Date: 07/28/1994  
Part B Recv Date: 07/21/1994  
Generator EPA ID: NYD002048593  
Trans1 EPA ID: NYD082785429  
Trans2 EPA ID: Not reported  
TSDF ID 1: NYD082785429  
TSDF ID 2: Not reported  
Manifest Tracking Number: Not reported  
Import Indicator: Not reported  
Export Indicator: Not reported  
Discr Quantity Indicator: Not reported  
Discr Type Indicator: Not reported  
Discr Residue Indicator: Not reported  
Discr Partial Reject Indicator: Not reported  
Discr Full Reject Indicator: Not reported  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: Not reported  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 00020  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 004  
Container Type: DF - Fiberboard or plastic drums (glass)  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 095

[Click this hyperlink](#) while viewing on your computer to access  
35 additional NY\_MANIFEST: record(s) in the EDR Site Report.

**SPDES:**

Permit Number: NY0075892  
State-Region: 01  
Expiration Date: 10/31/2013  
Current Major Minor Status: Minor  
Primary Facility SIC Code: Not reported  
State Water Body Name: GW  
Limit Set Status Flag: Active  
Total Actual Average Flow(MGD): 0.009  
Total App Design Flow(MGD): Not reported  
UDF1: Not reported  
Lat/Long: 40.749583 / -73.103972  
DMR Cognizant Official: RICHARD B KOSTER, PRESIDENT  
UDF2: 001701  
UDF3: GA  
FIPS County Code: NY103

Non-Gov Permit Affiliation Type Desc: DMR Mailing Address



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

Non-Gov Permit Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Permit Street Address: PARAMOLD MANUFACTURING LTD  
Non-Gov Permit Supplemental Location: 90 BOURNE BLVD  
Non-Gov Permit City: SAYVILLE  
Non-Gov Permit State Code: NY  
Non-Gov Permit Zip Code: 11782  
Non-Gov Facility Affiliation Type Desc: Mailing Address  
Non-Gov Facility Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Street Address: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Supplemental Location: 90 BOURNE BLVD  
Non-Gov Facility City: SAYVILLE  
Non-Gov Facility State Code: NY  
Non-Gov Facility Zip Code: 11782  
State Water Body: 02030202100

UDF2: 001701  
UDF3: GA  
FIPS County Code: NY103

Non-Gov Permit Affiliation Type Desc: DMR Mailing Address  
Non-Gov Permit Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Permit Street Address: PARAMOLD MANUFACTURING LTD  
Non-Gov Permit Supplemental Location: 90 BOURNE BLVD  
Non-Gov Permit City: SAYVILLE  
Non-Gov Permit State Code: NY  
Non-Gov Permit Zip Code: 11782  
Non-Gov Facility Affiliation Type Desc: Owner  
Non-Gov Facility Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Street Address: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Supplemental Location: 90 BOURNE BLVD  
Non-Gov Facility City: SAYVILLE  
Non-Gov Facility State Code: NY  
Non-Gov Facility Zip Code: 11782  
State Water Body: 02030202100

UDF2: 001701  
UDF3: GA  
FIPS County Code: NY103

Non-Gov Permit Affiliation Type Desc: Permittee  
Non-Gov Permit Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Permit Street Address: 90 BOURNE BLVD  
Non-Gov Permit Supplemental Location: Not reported  
Non-Gov Permit City: SAYVILLE  
Non-Gov Permit State Code: NY  
Non-Gov Permit Zip Code: 11782  
Non-Gov Facility Affiliation Type Desc: Mailing Address  
Non-Gov Facility Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Street Address: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Supplemental Location: 90 BOURNE BLVD  
Non-Gov Facility City: SAYVILLE  
Non-Gov Facility State Code: NY  
Non-Gov Facility Zip Code: 11782  
State Water Body: 02030202100

UDF2: 001701  
UDF3: GA



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**1000400659**

FIPS County Code: NY103

Non-Gov Permit Affiliation Type Desc: Permittee  
Non-Gov Permit Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Permit Street Address: 90 BOURNE BLVD  
Non-Gov Permit Supplemental Location: Not reported  
Non-Gov Permit City: SAYVILLE  
Non-Gov Permit State Code: NY  
Non-Gov Permit Zip Code: 11782  
Non-Gov Facility Affiliation Type Desc: Owner  
Non-Gov Facility Org Formal Name: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Street Address: PARAMOLD MANUFACTURING LTD  
Non-Gov Facility Supplemental Location: 90 BOURNE BLVD  
Non-Gov Facility City: SAYVILLE  
Non-Gov Facility State Code: NY  
Non-Gov Facility Zip Code: 11782  
State Water Body: 02030202100

**F20  
SW  
< 1/8  
0.111 mi.  
585 ft.**

**KOSTER KEUNEN INC  
90 BOURNE BLVD  
SAYVILLE, NY 11782  
Site 2 of 3 in cluster F**

**NY UST U004219763  
N/A**

**Relative:  
Higher  
Actual:  
44 ft.**

SUFFOLK CO. UST:  
Region: SUFFOLK  
Site Ref#: 10290  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

Facility Info:  
Site Ref#: 10290  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: KOSTER KEUNEN WAXES LTD  
Storage Owner Address: 90 BOURNE BLVD  
Storage Owner City: SAYVILLE  
Storage Owner State: NY  
Storage Owner Zip: 11782

Tank Info:  
Facility ID: 10290  
Facility Reference #: 01595  
Official Use: Removed Tank. 96  
Township: ISLIP  
Tax Map No: 0500 304.00 002 010.000  
Region: SUFFOLK  
Permit to Operate: Not reported

Tank ID: 1  
Tank Key: 29504  
Installed: 60  
Capacity: 0000010000  
Substance: #6 Fuel Oil



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**U004219763**

Date Removed: 091396  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000010000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 091396  
Year Installed: 60  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 2  
Tank Key: 29505  
Installed: 71  
Capacity: 0000010000  
Substance: #6 Fuel Oil  
Date Removed: Not reported  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000010000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: Not reported  
Year Installed: 71  
Description of drop records: RECORDS AS OF 09/10/2013



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**U004219763**

Tank ID: 3  
Tank Key: 29506  
Installed: 59  
Capacity: 0000005000  
Substance: ORGANIC SOLVENT  
Date Removed: 010185  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000005000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010185  
Year Installed: 59  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 4  
Tank Key: 29507  
Installed: 59  
Capacity: 0000003000  
Substance: ORGANIC SOLVENT  
Date Removed: 010185  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000003000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KOSTER KEUNEN INC (Continued)**

**U004219763**

Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010185  
Year Installed: 59  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 13  
Tank Key: 29516  
Installed: Not reported  
Capacity: 0000006000  
Substance: ORGANIC SOLVENT  
Date Removed: Not reported  
Construction: Not reported  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000006000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: Not reported  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

**F21**  
**SW**  
**< 1/8**  
**0.111 mi.**  
**585 ft.**

**GAZZA**  
**123 TOLEDO ST**  
**FARMINGDALE, NY 11735**

**Site 3 of 3 in cluster F**

**NY UST** **U003842832**  
**NY AST** **N/A**

**Relative:** SUFFOLK CO. UST:  
**Higher** Region: SUFFOLK  
Site Ref#: 01595  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

Facility Info:  
Site Ref#: 01595  
Billing Contact: KOSTER KEUNEN WAXES LTD  
Billing Address: 90 BOURNE BLVD  
Billing Address: SAYVILLE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Billing State: NY  
Billing Zip: 11782  
Storage Owner: KOSTER KEUNEN WAXES LTD  
Storage Owner Address: 90 BOURNE BLVD  
Storage Owner City: SAYVILLE  
Storage Owner State: NY  
Storage Owner Zip: 11782

**Tank Info:**

Facility ID: 01595  
Facility Reference #: Not reported  
Official Use: Not reported  
Township: Not reported  
Tax Map No: Not reported  
Region: SUFFOLK  
Permit to Operate: Not reported

Tank ID: 1  
Tank Key: Not reported  
Installed: Not reported  
Capacity: 10000 gallons  
Substance: #6 FUEL OIL  
Date Removed: Not reported  
Construction: STEEL/ IRON  
Dispenser: SUCTION  
Fill Type: Not reported  
Tank Location: UNDER - OUT  
Tank Status: REMOVED  
Total Capacity: 10000 gallons  
Date Permitted: Not reported  
Date Closed: 09/13/1996  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported  
Year Installed: Not reported  
Description of drop records: Not reported

Tank ID: 2  
Tank Key: Not reported  
Installed: Not reported  
Capacity: 10000 gallons  
Substance: #6 FUEL OIL  
Date Removed: Not reported  
Construction: STEEL/ IRON  
Dispenser: SUCTION



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Fill Type:	Not reported
Tank Location:	UNDER - OUT
Tabk Status:	IN SERVICE
Total Capacity:	10000 gallons
Date Permitted:	Not reported
Date Closed:	Not reported
Internal Protection:	NONE
Secondary Containment:	NONE
Extrenal Protection:	Not reported
Leak Detection:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	Not reported
Date Removed:	Not reported
Year Installed:	Not reported
Description of drop records:	Not reported

**AST\_SUFFOLK:**

Region:	SUFFOLK
Site Ref#:	10290
Status:	Not reported
Site Type:	Not reported
Operating Permit Expires:	Not reported
Owner/Storage Information:	Not reported

**Facility Info:**

Site Ref#:	10290
Billing Contact:	Not reported
Billing Address:	Not reported
Billing Address:	Not reported
Billing State:	Not reported
Billing Zip:	Not reported
Storage Owner:	KOSTER KEUNEN WAXES LTD
Storage Owner Address:	90 BOURNE BLVD
Storage Owner City:	SAYVILLE
Storage Owner State:	NY
Storage Owner Zip:	11782

**Tank Info:**

Facility ID:	10290
Facility Reference #:	01595
Township:	ISLIP
Tax Map No:	0500
Region:	SUFFOLK
Tank ID:	10
Tank Key:	29513
Year Installed:	Not reported
Substance:	ORGANIC SOLVENT
Construction:	STEEL



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Dispenser:	OTHER
Official Use:	Removed Tank. 89
Permit to Operate:	Not reported
Tank Location:	ABOVE
Tabk Status:	Not reported
Total Capacity:	000000500
Date Permitted:	Not reported
Date Closed:	Not reported
Internal Protection:	Not reported
Secondary Containment:	Not reported
Extrenal Protection:	Not reported
Leak Detection:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	OTHER
Date Removed:	010189
Tank ID:	11
Tank Key:	29514
Year Installed:	Not reported
Substance:	ORGANIC SOLVENT
Construction:	STEEL
Dispenser:	OTHER
Official Use:	Removed Tank. 89
Permit to Operate:	Not reported
Tank Location:	ABOVE
Tabk Status:	Not reported
Total Capacity:	0000001000
Date Permitted:	Not reported
Date Closed:	Not reported
Internal Protection:	Not reported
Secondary Containment:	Not reported
Extrenal Protection:	Not reported
Leak Detection:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	OTHER
Date Removed:	010189
Tank ID:	12
Tank Key:	29515
Year Installed:	Not reported
Substance:	ORGANIC SOLVENT



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Construction:	STEEL
Dispenser:	OTHER
Official Use:	Removed Tank. 89
Permit to Operate:	Not reported
Tank Location:	ABOVE
Tabk Status:	Not reported
Total Capacity:	0000001000
Date Permitted:	Not reported
Date Closed:	Not reported
Internal Protection:	Not reported
Secondary Containment:	Not reported
Extrenal Protection:	Not reported
Leak Detection:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	OTHER
Date Removed:	010189
Tank ID:	5
Tank Key:	29508
Year Installed:	79
Substance:	ORGANIC SOLVENT
Construction:	Not reported
Dispenser:	SUCTION
Official Use:	Removed Tank. 89
Permit to Operate:	Not reported
Tank Location:	ABOVE
Tabk Status:	Not reported
Total Capacity:	0000000500
Date Permitted:	Not reported
Date Closed:	Not reported
Internal Protection:	Not reported
Secondary Containment:	Not reported
Extrenal Protection:	Not reported
Leak Detection:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	PUMPED
Date Removed:	010189

Tank ID:	6
Tank Key:	29509
Year Installed:	79



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Substance: ORGANIC SOLVENT  
Construction: Not reported  
Dispenser: SUCTION  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 000000500  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 010189

Tank ID: 7  
Tank Key: 29510  
Year Installed: 59  
Substance: ORGANIC SOLVENT  
Construction: STEEL  
Dispenser: SUCTION  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 000000800  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 010189

Tank ID: 8  
Tank Key: 29511



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZZA (Continued)**

**U003842832**

Year Installed: 59  
Substance: ORGANIC SOLVENT  
Construction: STEEL  
Dispenser: SUCTION  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 000000800  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 010189

Tank ID: 9  
Tank Key: 29512  
Year Installed: 59  
Substance: ORGANIC SOLVENT  
Construction: STEEL  
Dispenser: SUCTION  
Official Use: Removed Tank. 89  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 000000500  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 010189



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**E22**  
**NNE**  
**< 1/8**  
**0.121 mi.**  
**637 ft.**

**SAYVILLE BOWLING ALLEY**  
**SUNRISE HWY & LAKELAND AVENUE**  
**ISLIP, NY**

**NY Spills** **S106701250**  
**N/A**

**Site 2 of 7 in cluster E**

**Relative:**  
**Higher**

**Actual:**  
**36 ft.**

**SPILLS:**

Facility ID: 9012854  
Facility Type: ER  
Spill Number: 9012854  
DER Facility ID: 83478  
Site ID: 93089  
DEC Region: 1  
Closed Date: 1991-03-28  
Spill Cause: Traffic Accident  
Spill Class: C2  
SWIS: 5228  
Spill Date: 1991-03-15  
Investigator: MIRZA  
Referred To: Not reported  
Reported to Dept: 1991-03-15  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: Local Agency  
Cleanup Ceased: 1991-03-28  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1991-03-19  
Spill Record Last Update: 2009-08-21  
Spiller Name: Not reported  
Spiller Company: AGGREKKO  
Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: Not reported  
DEC Memo: "STORM DRAIN AFFECTED, FOUND BY DEC DURING INVESTIGATION AND SUBSEQUENTLY CLEANED DURING CLEANUP, UNDER DEC SUPERVISION"

Remarks: "MV ACCIDENT, SCPD ON SCENE.MAY HAVE APPLIED SPEEDI DRY. 50-70 GALS SPILLED.DIKED & CONTAINED ON ROAD.S.D AFFECTED (FOUND BY DEC DURING INVESTIGATION) AND SUBSEQUENTLY CLEANED DURING CLEANUP \*\*\*NOTE: MAY ALSO HAVE BEEN RECORDED AS 9012855; THIS IS THE NUMBER TO BE USED\*\*\*\*"

**All Materials:**

Site ID: 93089  
Operable Unit ID: 952767  
Operable Unit: 01  
Material ID: 429312  
Material Code: 0066A  
Material Name: unknown petroleum  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 75.00  
Units: G  
Recovered: .00  
Oxygenate: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

EDR ID Number  
EPA ID Number

**E23**  
**NNE**  
**< 1/8**  
**0.121 mi.**  
**637 ft.**  
**UNKNOWN**  
**LAKELAND AVE/SUNRISE HWY**  
**WEST SAYVILLE, NY**  
**Site 3 of 7 in cluster E**

**NY Spills** **S106468612**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**36 ft.**

**SPILLS:**

Facility ID: 0401075  
Facility Type: ER  
Spill Number: 0401075  
DER Facility ID: 89670  
Site ID: 101173  
DEC Region: 1  
Closed Date: 2004-10-06  
Spill Cause: Other  
Spill Class: C2  
SWIS: 5228  
Spill Date: 2004-04-30  
Investigator: CAGAITES  
Referred To: Not reported  
Reported to Dept: 2004-04-30  
CID: 406  
Water Affected: Not reported  
Spill Source: Tank Truck  
Spill Notifier: Fire Department  
Cleanup Ceased: Not reported  
Cleanup Meets Std: False  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2004-04-30  
Spill Record Last Update: 2015-11-16  
Spiller Name: SHAMUS  
Spiller Company: EMERALI ISLE PAVING  
Spiller Address: 36 EAST MADISON STREET  
Spiller Company: 001  
Contact Name: MIKE POSTAL  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
GAITES 4/30 TELECON TO MIKE POSTAL, SAYVILLE FD, DIESEL MACK DUMP  
TRUCK LOST BRAKES AND HIT A FENCE. FENCE BROKE CROSS OVER LINE  
BETWEEN TANKS, TANKS ARE OK, LINE LEAK STOPPED BY FD, APPROX 20  
GALLONS RELEASE,SLIGHT IMPACT TO STORM DRAIN, RP REP ENROUTE TO THE  
SITE SPOKE TO MIKE WASER ISLIP HAZMAT ON SITE,WILL ADVISE RP TO  
CLEANUP SITE, SPILL TO GRASS AREA IMPACTING GRASS AND SOIL, PADS AND  
BOOM DEPLOYED BY FD, 1ST STORM WEST OF LAKELAND ON NORTHSIDE OF SOUTH  
SERVICE ROAD CG ENROUTE"  
Remarks: "Hazmat from Islip is on scene with assistant fire chief. Material is  
all over the road minimal material went into the storm drain. Would  
like DEC on scene. Comm veh. is source. Contact fire chief ASAP."

**All Materials:**

Site ID: 101173  
Operable Unit ID: 885238  
Operable Unit: 01  
Material ID: 559909  
Material Code: 0008  
Material Name: diesel  
Case No.: Not reported  
Material FA: Petroleum



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNKNOWN (Continued)**

**S106468612**

Quantity: 20.00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**E24  
NNE  
< 1/8  
0.121 mi.  
637 ft.**

**UNK  
11TH ST/SUNRISE SOUTH SVC  
BOHEMIA, NY**

**NY Spills S104952314  
N/A**

**Site 4 of 7 in cluster E**

**Relative:  
Higher**

**Actual:  
36 ft.**

**SPILLS:**

Facility ID: 0025378  
Facility Type: ER  
Spill Number: 0025378  
DER Facility ID: 75908  
Site ID: 82238  
DEC Region: 1  
Closed Date: 2001-01-23  
Spill Cause: Other  
Spill Class: E5  
SWIS: 5228  
Spill Date: 2001-01-23  
Investigator: UNASSIGNED  
Referred To: Not reported  
Reported to Dept: 2001-01-23  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Passenger Vehicle  
Spill Notifier: Local Agency  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2001-01-23  
Spill Record Last Update: 2012-06-29  
Spiller Name: Not reported  
Spiller Company: UNK  
Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was NONE 1/23/01 14:21 TELECON WITH STEVE OF DOT, KNOWS NO DETAILS, WILL CALL BACK WHEN CREW RADIOS IN, 14:41 TELECON WITH STEVE FROM DOT DISPATCH, FIELD CREW REPORTED NO VEHICLE BELIEVES TO BE CRACK CALL (CE)"  
  
Remarks: "DOT HIGHWAY CREW FOUND MOTOR VEHICLE ABANDONED NEXT TO A SUMP (SUMP 47?). IS ACTIVELY LEAKING AUTOMOTIVE FLUIDS (UNCERTAIN EXACTLY WHAT, BUT PROBABLY NOT GAS) INTO SUMP."

**All Materials:**

Site ID: 82238  
Operable Unit ID: 836498  
Operable Unit: 01  
Material ID: 540805



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNK (Continued)**

**S104952314**

Material Code: 0005A  
Material Name: auto waste fluids  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**E25**  
**NNE**  
**< 1/8**  
**0.121 mi.**  
**637 ft.**

**TRI VENTURE**  
**SUNRISE HWY/LAKELAND AVE**  
**SAYVILLE, NY**

**NY Spills S102961557**  
**N/A**

**Site 5 of 7 in cluster E**

**Relative:**  
**Higher**

**Actual:**  
**36 ft.**

**SPILLS:**

Facility ID: 9712382  
Facility Type: ER  
Spill Number: 9712382  
DER Facility ID: 196092  
Site ID: 238082  
DEC Region: 1  
Closed Date: 1998-07-06  
Spill Cause: Deliberate  
Spill Class: E5  
SWIS: 5228  
Spill Date: 1998-02-05  
Investigator: BMFORD  
Referred To: Not reported  
Reported to Dept: 1998-02-05  
CID: 266  
Water Affected: Not reported  
Spill Source: Commercial/Industrial  
Spill Notifier: Federal Government  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1998-02-05  
Spill Record Last Update: 2018-01-11  
Spiller Name: Not reported  
Spiller Company: TRI VENTURE  
Spiller Address: SUNRISE HWY/LAKELAND AVE  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was FORD BRIAN FORD INVESTIGATED AREA AND DRAINAGE, FOUND NOTHING SEE ALSO 97-12676"  
Remarks: "WIFE OF AN EMPLOYEE STATES THAT SPILLER IS DUMPING WASTE OIL AND ANTIFREEZE FROM 55 GALLON DRUMS."

**All Materials:**

Site ID: 238082  
Operable Unit ID: 1055146  
Operable Unit: 01



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TRI VENTURE (Continued)**

**S102961557**

Material ID: 326991  
Material Code: 0043A  
Material Name: antifreeze  
Case No.: Not reported  
Material FA: Other  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported  
  
Site ID: 238082  
Operable Unit ID: 1055146  
Operable Unit: 01  
Material ID: 326990  
Material Code: 0022  
Material Name: waste oil/used oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**E26**  
**NNE**  
**< 1/8**  
**0.121 mi.**  
**637 ft.**

**UNKNOWN**  
**SUNRISE HWY & LAKELAND**  
**BOHEMIA, NY**

**NY Spills S102095878**  
**N/A**

**Site 6 of 7 in cluster E**

**Relative:**  
**Higher**

**Actual:**  
**36 ft.**

**SPILLS:**  
Facility ID: 8903887  
Facility Type: ER  
Spill Number: 8903887  
DER Facility ID: 77170  
Site ID: 83882  
DEC Region: 1  
Closed Date: 1990-08-14  
Spill Cause: Traffic Accident  
Spill Class: C2  
SWIS: 5228  
Spill Date: 1989-07-18  
Investigator: NJACAMPO  
Referred To: Not reported  
Reported to Dept: 1989-07-18  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Commercial Vehicle  
Spill Notifier: Police Department  
Cleanup Ceased: 1990-08-14  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1989-07-21  
Spill Record Last Update: 2009-04-24  
Spiller Name: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNKNOWN (Continued)**

**S102095878**

Spiller Company: RGM  
Spiller Address: Not reported  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
ACAMPORA "  
Remarks: "P.D & F.D ON SCENE. WAITING FOR DEC RESPONSE NA RESPOND ~2015"  
All Materials:  
Site ID: 83882  
Operable Unit ID: 929295  
Operable Unit: 01  
Material ID: 447958  
Material Code: 0001A  
Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 50.00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**E27  
NNE  
< 1/8  
0.121 mi.  
637 ft.**

**UNKNOWN  
LAKELAND AVE/RTE 27 SVCE  
SAYVILLE, NY  
Site 7 of 7 in cluster E**

**NY Spills S106470087  
N/A**

**Relative:  
Higher  
Actual:  
36 ft.**

**SPILLS:**  
Facility ID: 0402922  
Facility Type: ER  
Spill Number: 0402922  
DER Facility ID: 253691  
Site ID: 314666  
DEC Region: 1  
Closed Date: 2004-06-17  
Spill Cause: Unknown  
Spill Class: C4  
SWIS: 5228  
Spill Date: 2004-06-16  
Investigator: UNASSIGNED  
Referred To: Not reported  
Reported to Dept: 2004-06-16  
CID: 71  
Water Affected: Not reported  
Spill Source: Unknown  
Spill Notifier: Police Department  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2004-06-16  
Spill Record Last Update: 2009-06-01  
Spiller Name: Not reported  
Spiller Company: UNKNOWN



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNKNOWN (Continued)**

**S106470087**

Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: SUFFOLK CO POLICE  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
NONE TELECON SCPDES FROM SCENE, SPILL QTY IS LESS THAN ONE QUART FROM  
AN UNK LEAKY VEHICLE, NO ASSISTANCE FROM DEC NEEDED"  
Remarks: "PATROL DISCOVERED SPILL AT INTERSECTION OF LAKELAND AV & RT 27  
SERVICE RD EASTBOUND. CLEAN-UP PENDING. EMERGENCY UNIT STANDING BY.  
CENTRAL COMPLAIN #04327912."

All Materials:

Site ID: 314666  
Operable Unit ID: 884730  
Operable Unit: 01  
Material ID: 490527  
Material Code: 0015  
Material Name: motor oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**G28  
NW  
1/8-1/4  
0.148 mi.  
779 ft.**

**LEE CHEVROLET INC.  
4825 SUNRISE HWY  
SAYVILLE, NY 11782  
Site 1 of 3 in cluster G**

**NJ MANIFEST S108794053  
N/A**

**Relative:  
Higher  
Actual:  
49 ft.**

NJ MANIFEST:  
EPA Id: NYD982737017  
Mail Address: 4825 SUNRISE HWY  
Mail City/State/Zip: SAYVILLE 11782  
Facility Phone: 5165893100  
Emergency Phone: 5165893100  
Contact: Not reported  
Comments: Not reported  
SIC Code: Not reported  
County: 00  
Municipal: 00  
Previous EPA Id: Not reported  
Gen Flag: X  
Trans Flag: Not reported  
TSD Flag: Not reported  
Name Change: Not reported  
Date Change: 000000

Manifest:

Manifest Number: 001417274SKS  
EPA ID: NYD982737017  
Date Shipped: 08/04/2008  
TSD EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 08/04/2008  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 08/07/2008  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H141  
Quantity: 10 G

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H141  
Quantity: 16 G

Manifest Number: 000333658SKS  
EPA ID: NYD982737017  
Date Shipped: 06/15/2007  
TSDf EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

Date Trans1 Transported Waste: 06/15/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 06/19/2007  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H14  
Quantity: 11 G

Manifest Number: 000831662SKS  
EPA ID: NYD982737017  
Date Shipped: 11/27/2007  
TSDf EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 11/27/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

Date TSDF Received Waste: 12/03/2007  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

Manifest Number: 000406683SKS  
EPA ID: NYD982737017  
Date Shipped: 03/22/2007  
TSDF EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 03/22/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 03/27/2007  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEE CHEVROLET INC. (Continued)

S108794053

Waste:

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H14  
Quantity: 10 G

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H14  
Quantity: 14 G

Manifest Number: 001105666SKS  
EPA ID: NYD982737017  
Date Shipped: 05/12/2008  
TSDF EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 05/12/2008  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 05/14/2008  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

Waste:

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H141



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEE CHEVROLET INC. (Continued)

S108794053

Quantity: 10 G

Manifest Number: 000998747SKS  
EPA ID: NYD982737017  
Date Shipped: 02/18/2008  
TSD EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 02/18/2008  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSD Received Waste: 02/26/2008  
TSD EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

Waste:

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H141  
Quantity: 14 G

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H141  
Quantity: 10 G

Manifest Number: 000857497SKS  
EPA ID: NYD982737017



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

Date Shipped: 08/31/2007  
TSDF EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 08/31/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 09/07/2007  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H14  
Quantity: 10 G  
  
Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H14  
Quantity: 14 G

Manifest Number: 000054125SKS  
EPA ID: NYD982737017  
Date Shipped: 07/13/2007  
TSDF EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 07/13/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDf Received Waste: 07/17/2007  
TSDf EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H14  
Quantity: 10 G

Manifest Number: 001445954SKS  
EPA ID: NYD982737017  
Date Shipped: 10/27/2008  
TSDf EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 10/27/2008  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET INC. (Continued)**

**S108794053**

Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported  
Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 10/30/2008  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H141  
Quantity: 10 G

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H141  
Quantity: 16 G

Manifest Number: 000424077SKS  
EPA ID: NYD982737017  
Date Shipped: 01/05/2007  
TSDF EPA ID: NJD982270506  
Transporter EPA ID: TXR000050930  
Transporter 2 EPA ID: Not reported  
Transporter 3 EPA ID: Not reported  
Transporter 4 EPA ID: Not reported  
Transporter 5 EPA ID: Not reported  
Transporter 6 EPA ID: Not reported  
Transporter 7 EPA ID: Not reported  
Transporter 8 EPA ID: Not reported  
Transporter 9 EPA ID: Not reported  
Transporter 10 EPA ID: Not reported  
Date Trans1 Transported Waste: 01/05/2007  
Date Trans2 Transported Waste: Not reported  
Date Trans3 Transported Waste: Not reported  
Date Trans4 Transported Waste: Not reported  
Date Trans5 Transported Waste: Not reported  
Date Trans6 Transported Waste: Not reported  
Date Trans7 Transported Waste: Not reported  
Date Trans8 Transported Waste: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEE CHEVROLET INC. (Continued)

S108794053

Date Trans9 Transported Waste: Not reported  
Date Trans10 Transported Waste: Not reported  
Date TSDF Received Waste: 01/09/2007  
TSDF EPA Facility Name: Not reported  
QTY Units: Not reported  
Transporter SEQ ID: Not reported  
Transporter-1 Date: Not reported  
Waste SEQ ID: Not reported  
Waste Type Code 2: Not reported  
Waste Type Code 3: Not reported  
Waste Type Code 4: Not reported  
Waste Type Code 5: Not reported  
Waste Type Code 6: Not reported  
Date Accepted: Not reported  
Manifest Discrepancy Type: Not reported  
Data Entry Number: Not reported  
Was Load Rejected: SAYVILLE 11782  
Reason Load Was Rejected: Not reported

Waste:

Manifest Year: Not reported  
Waste Code: D001  
Hand Code: H14  
Quantity: 14 G

Manifest Year: Not reported  
Waste Code: D039  
Hand Code: H14  
Quantity: 10 G

G29  
NW  
1/8-1/4  
0.148 mi.  
779 ft.

LEE CHEVROLET  
4825 SUNRISE HWY  
BOHEMIA, NY 11716

Site 2 of 3 in cluster G

RCRA-CESQG 1000106507  
FINDS NYD982737017  
ECHO  
NY MANIFEST

Relative:  
Higher

Actual:  
49 ft.

RCRA-CESQG:  
Date form received by agency: 01/01/2007  
Facility name: LEE CHEVROLET  
Facility address: 4825 SUNRISE HWY  
BOHEMIA, NY 11716  
EPA ID: NYD982737017  
Mailing address: SUNRISE HWY  
BOHEMIA, NY 11716  
Contact: PAUL FACOVITZ  
Contact address: SUNRISE HWY  
BOHEMIA, NY 11716  
Contact country: US  
Contact telephone: 516-589-3100  
Contact email: Not reported  
EPA Region: 02  
Land type: Facility is not located on Indian land. Additional information is not known.  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time;



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEE CHEVROLET (Continued)

1000106507

or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: ROBERT LEE  
Owner/operator address: 4825 SUNRISE HWY  
BOHEMIA, NY 11716  
  
Owner/operator country: US  
Owner/operator telephone: 516-589-3100  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: ROBERT LEE  
Owner/operator address: 4825 SUNRISE HWY  
BOHEMIA, NY 11716  
  
Owner/operator country: US  
Owner/operator telephone: 516-589-3100  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET (Continued)**

**1000106507**

Historical Generators:

Date form received by agency: 01/01/2006  
Site name: LEE CHEVROLET  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/09/1996  
Site name: LEE CHEVROLET  
Classification: Small Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - Records/Reporting  
Date violation determined: 04/30/1993  
Date achieved compliance: 10/19/1993  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 08/04/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 1200  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Records/Reporting  
Date violation determined: 04/30/1993  
Date achieved compliance: 10/19/1993  
Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 10/19/1993  
Enf. disposition status: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET (Continued)**

**1000106507**

Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 1200  
Paid penalty amount: 1200

**Evaluation Action Summary:**

Evaluation date: 01/01/1994  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA

Evaluation date: 04/30/1993  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - Records/Reporting  
Date achieved compliance: 10/19/1993  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110004430303

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110019563284

**Environmental Interest/Information System**

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000106507  
Registry ID: 110004430303  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110004430303>

**NY MANIFEST:**

Country: USA  
EPA ID: NYD982737017  
Facility Status: Not reported  
Location Address 1: 4825 SUNRISE HIGHWAY  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: BOHEMIA



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET (Continued)**

**1000106507**

Location State: NY  
Location Zip: 11716  
Location Zip 4: Not reported

**NY MANIFEST:**

EPAID: NYD982737017  
Mailing Name: SUN AUTO GROUP  
Mailing Contact: JIM FALCONE  
Mailing Address 1: 4825 SUNRISE HIGHWAY  
Mailing Address 2: Not reported  
Mailing City: BOHEMIA  
Mailing State: NY  
Mailing Zip: 11716  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 5166313100

**NY MANIFEST:**

Document ID: Not reported  
Manifest Status: Not reported  
seq: Not reported  
Year: 2008  
Trans1 State ID: TXR000050930  
Trans2 State ID: Not reported  
Generator Ship Date: 10/27/2008  
Trans1 Recv Date: 10/27/2008  
Trans2 Recv Date: Not reported  
TSD Site Recv Date: 10/30/2008  
Part A Recv Date: Not reported  
Part B Recv Date: Not reported  
Generator EPA ID: NYD982737017  
Trans1 EPA ID: Not reported  
Trans2 EPA ID: Not reported  
TSDF ID 1: NJD982270506  
TSDF ID 2: Not reported  
Manifest Tracking Number: 001445954SKS  
Import Indicator: N  
Export Indicator: N  
Discr Quantity Indicator: N  
Discr Type Indicator: N  
Discr Residue Indicator: N  
Discr Partial Reject Indicator: N  
Discr Full Reject Indicator: N  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: H141  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 10.0  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 2.0  
Container Type: DF - Fiberboard or plastic drums (glass)



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEE CHEVROLET (Continued)**

**1000106507**

Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 1.0  
Waste Code: D039  
Waste Code 1\_2: Not reported  
Waste Code 1\_3: Not reported  
Waste Code 1\_4: Not reported  
Waste Code 1\_5: Not reported  
Waste Code 1\_6: Not reported

[Click this hyperlink](#) while viewing on your computer to access  
81 additional NY\_MANIFEST: record(s) in the EDR Site Report.

**G30  
NW  
1/8-1/4  
0.148 mi.  
779 ft.**

**GENERATION KIA  
4825 SUNRISE HWY  
BOHEMIA, NY 11716**

**NY AST U003843398  
N/A**

**Site 3 of 3 in cluster G**

**Relative:  
Higher  
Actual:  
49 ft.**

AST\_SUFFOLK:  
Region: SUFFOLK  
Site Ref#: 06962  
Status: ACTIVE  
Site Type: PBS  
Operating Permit Expires: 03/31/2020  
Owner/Storage Information: AVAILABLE  
  
Facility Info:  
Site Ref#: 06962  
Billing Contact: GENERATION KIA  
Billing Address: 4825 SUNRISE HWY  
Billing Address: BOHEMIA  
Billing State: NY  
Billing Zip: 11716  
Storage Owner: GENERATION KIA  
Storage Owner Address: 4825 SUNRISE HWY  
Storage Owner City: BOHEMIA  
Storage Owner State: NY  
Storage Owner Zip: 11716  
  
Tank Info:  
Facility ID: 06962  
Facility Reference #: Not reported  
Township: Not reported  
Tax Map No: Not reported  
Region: SUFFOLK  
  
Tank ID: 1  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: WASTE OIL  
Construction: STEEL/ IRON  
Dispenser: SUCTION  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - OUT  
Tank Status: IN SERVICE  
Total Capacity: 275 gallons



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERATION KIA (Continued)**

**U003843398**

Date Permitted: 06/01/1990  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 2  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: WASTE OIL  
Construction: STEEL/ IRON  
Dispenser: SUCTION  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - OUT  
Tank Status: IN SERVICE  
Total Capacity: 275 gallons  
Date Permitted: 06/01/1990  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 3  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: MOTOR OIL  
Construction: STEEL/ IRON  
Dispenser: OTHER  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - OUT  
Tank Status: IN SERVICE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERATION KIA (Continued)**

**U003843398**

Total Capacity: 275 gallons  
Date Permitted: 06/01/1990  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 4  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: MOTOR OIL  
Construction: STEEL/ IRON  
Dispenser: OTHER  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - OUT  
Tank Status: IN SERVICE  
Total Capacity: 275 gallons  
Date Permitted: 06/01/1990  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 5  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: MOTOR OIL  
Construction: STEEL/ IRON  
Dispenser: OTHER  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - OUT



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERATION KIA (Continued)**

**U003843398**

Tank Status: IN SERVICE  
Total Capacity: 275 gallons  
Date Permitted: 06/01/1990  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 7  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: TRANSMISSION FLUID  
Construction: STEEL/ IRON  
Dispenser: Not reported  
Official Use: Not reported  
Permit to Operate: Not reported  
Tank Location: ABOVE - OUT  
Tank Status: IN SERVICE  
Total Capacity: 275 gallons  
Date Permitted: 06/01/1990  
Date Closed: Not reported  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

Tank ID: 8  
Tank Key: Not reported  
Year Installed: Not reported  
Substance: WASTE OIL  
Construction: STEEL/ IRON  
Dispenser: Not reported  
Official Use: Not reported  
Permit to Operate: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERATION KIA (Continued)**

**U003843398**

Tank Location: ABOVE - OUT  
Tank Status: REMOVED  
Total Capacity: 275 gallons  
Date Permitted: Not reported  
Date Closed: 03/11/2002  
Internal Protection: NONE  
Secondary Containment: NONE  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: Not reported  
Date Removed: Not reported

31  
ESE  
1/8-1/4  
0.164 mi.  
867 ft.

**COUNTRY CLUB APTS**  
**342 CNTY RD 93 LAKELAND AVE**  
**SAYVILLE, NY 11782**

**NY UST U003538567**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**35 ft.**

SUFFOLK CO. UST:  
Region: SUFFOLK  
Site Ref#: 09427  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported  
  
Facility Info:  
Site Ref#: 09427  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: COUNTRY CLUB ASSOCIATES  
Storage Owner Address: 66 COMMACK RD  
Storage Owner City: COMMACK  
Storage Owner State: NY  
Storage Owner Zip: 11725  
  
Tank Info:  
Facility ID: 09427  
Facility Reference #: 12523  
Official Use: Removed Tank. 92  
Township: ISLIP  
Tax Map No: 0500 305.00 003 030.000  
Region: SUFFOLK  
Permit to Operate: Not reported  
  
Tank ID: 1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COUNTRY CLUB APTS (Continued)**

**U003538567**

Tank Key: 26184  
Installed: 69  
Capacity: 0000002000  
Substance: #2 FUEL OIL  
Date Removed: 121692  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000002000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 121692  
Year Installed: 69  
Description of drop records: RECORDS AS OF 09/10/2013

32  
SW  
1/8-1/4  
0.194 mi.  
1025 ft.

**ARIEL GRAPHICS**  
**80 BOURNE BLVD**  
**SAYVILLE, NY 11782**

**RCRA NonGen / NLR**  
**FINDS**  
**ECHO**

**1000203549**  
**NYD986866556**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

**Actual:**  
**43 ft.**

Date form received by agency: 01/01/2007  
Facility name: ARIEL GRAPHICS  
Facility address: 80 BOURNE BLVD  
SAYVILLE, NY 11782-3307  
EPA ID: NYD986866556  
Mailing address: PO BOX 100  
SAYVILLE, NY 11782  
Contact: Not reported  
Contact address: PO BOX 100  
SAYVILLE, NY 11782  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: ANDREA WANDELT



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARIEL GRAPHICS (Continued)**

**1000203549**

Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: 212-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: ANDREA WANDELT  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: 212-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 01/01/2006  
Site name: ARIEL GRAPHICS  
Classification: Not a generator, verified

Date form received by agency: 07/08/1999  
Site name: ARIEL GRAPHICS  
Classification: Not a generator, verified

Date form received by agency: 05/04/1988  
Site name: ARIEL GRAPHICS  
Classification: Large Quantity Generator

Waste code: D000



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARIEL GRAPHICS (Continued)**

**1000203549**

Waste name: Not Defined

Violation Status: No violations found

**FINDS:**

Registry ID: 110004436085

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000203549  
Registry ID: 110004436085  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110004436085>

**H33  
WNW  
1/8-1/4  
0.213 mi.  
1122 ft.**

**SUNRISE DIAGNOSTICS & AMOCO S/S  
635 SMITHTOWN AVE  
BOHEMIA, NY 11716**

**NY UST U003538067  
NY AST N/A**

**Site 1 of 3 in cluster H**

**Relative:  
Higher  
Actual:  
47 ft.**

**SUFFOLK CO. UST:**

Region: SUFFOLK  
Site Ref#: 09638  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

**Facility Info:**

Site Ref#: 09638  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: NYS DOT REGION 10  
Storage Owner Address: 635 STATE OFFICE BLDG  
Storage Owner City: HAUPPAUGE  
Storage Owner State: NY  
Storage Owner Zip: 11788

**Tank Info:**

Facility ID: 09638  
Facility Reference #: 13113  
Official Use: Removed Tank. 90  
Township: ISLIP  
Tax Map No: 0500 256.00 002 018.000



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Region: SUFFOLK  
Permit to Operate: Not reported  
  
Tank ID: 1  
Tank Key: 27459  
Installed: 77  
Capacity: 0000008000  
Substance: GASOLINE  
Date Removed: 101590  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000008000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 101590  
Year Installed: 77  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 2  
Tank Key: 27460  
Installed: 61  
Capacity: 0000003000  
Substance: GASOLINE  
Date Removed: 010185  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tabk Status: Not reported  
Total Capacity: 0000003000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010185  
Year Installed: 61  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 3  
Tank Key: 27461  
Installed: 61  
Capacity: 0000003000  
Substance: GASOLINE  
Date Removed: 010185  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000003000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 010185  
Year Installed: 61  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 4  
Tank Key: 27462  
Installed: 72  
Capacity: 0000006000  
Substance: GASOLINE  
Date Removed: 101590  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000006000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 101590  
Year Installed: 72  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 5  
Tank Key: 27463  
Installed: 61  
Capacity: 0000000550  
Substance: WASTE OIL  
Date Removed: 102490  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000000550  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 102490  
Year Installed: 61  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 6  
Tank Key: 27464  
Installed: 85  
Capacity: 0000008000  
Substance: GASOLINE  
Date Removed: 050995  
Construction: STEEL  
Dispenser: SUCTION



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000008000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 050995  
Year Installed: 85  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 7  
Tank Key: 27465  
Installed: Not reported  
Capacity: 0000000550  
Substance: #2 FUEL OIL  
Date Removed: 110290  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000000550  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 110290  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 8



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Tank Key: 27466  
Installed: 90  
Capacity: 0000010000  
Substance: GASOLINE  
Date Removed: 050995  
Construction: FRP / FRP  
Dispenser: SUBMERSIBLE  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000010000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: GRAVITY  
Date Removed: 050995  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

Tank ID: 9  
Tank Key: 27467  
Installed: 90  
Capacity: 0000010000  
Substance: GASOLINE  
Date Removed: 050995  
Construction: FRP / FRP  
Dispenser: SUBMERSIBLE  
Fill Type: GRAVITY  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000010000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Fill: GRAVITY  
Date Removed: 050995  
Year Installed: 90  
Description of drop records: RECORDS AS OF 09/10/2013

**AST\_SUFFOLK:**

Region: SUFFOLK  
Site Ref#: 09638  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

**Facility Info:**

Site Ref#: 09638  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: NYS DOT REGION 10  
Storage Owner Address: 635 STATE OFFICE BLDG  
Storage Owner City: HAUPPAUGE  
Storage Owner State: NY  
Storage Owner Zip: 11788

**Tank Info:**

Facility ID: 09638  
Facility Reference #: 13113  
Township: ISLIP  
Tax Map No: 0500  
Region: SUFFOLK

Tank ID: 10  
Tank Key: 27468  
Year Installed: 90  
Substance: WASTE OIL  
Construction: STEEL  
Dispenser: SUCTION  
Official Use: Removed Tank. 90  
Permit to Operate: Not reported  
Tank Location: ABOVE  
Tank Status: Not reported  
Total Capacity: 0000000275  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNRISE DIAGNOSTICS & AMOCO S/S (Continued)**

**U003538067**

Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	GRAVITY
Date Removed:	100190
Tank ID:	11
Tank Key:	27469
Year Installed:	90
Substance:	#2 FUEL OIL
Construction:	STEEL
Dispenser:	GRAVITY
Official Use:	Removed Tank. 95
Permit to Operate:	Not reported
Tank Location:	ABOVE
Tank Status:	Not reported
Total Capacity:	0000000275
Date Permitted:	Not reported
Date Closed:	Not reported
Internal Protection:	Not reported
Secondary Containment:	Not reported
Extrenal Protection:	Not reported
Leak Detection:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe External Protection:	Not reported
Pipe Containment:	Not reported
Pipe Leak Detection:	Not reported
Date Next Tank Test:	Not reported
Fill:	PUMPED
Date Removed:	050995

**H34**  
**WNW**  
**1/8-1/4**  
**0.213 mi.**  
**1122 ft.**

**AMOCO**  
**635 SMITHTOWN AVE**  
**BOHEMIA, NY**

**Site 2 of 3 in cluster H**

**NY LTANKS** **S101102378**  
**NY Spills** **N/A**

<b>Relative:</b>	LTANKS:	
<b>Higher</b>	Facility ID:	9403110
<b>Actual:</b>	Site ID:	103635
<b>47 ft.</b>	Closed Date:	1995-02-22
	Spill Number:	9403110
	Spill Date:	1994-06-02
	Spill Cause:	Tank Test Failure
	Spill Source:	Gasoline Station or other PBS Facility
	Spill Class:	B3
	Cleanup Ceased:	1995-02-22
	SWIS:	5200
	Investigator:	T/T/F
	Referred To:	Not reported
	Reported to Dept:	1994-06-02
	CID:	Not reported
	Water Affected:	Not reported
	Spill Notifier:	Tank Tester



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO (Continued)**

**S101102378**

Last Inspection: Not reported  
Recommended Penalty: False  
Meets Standard: True  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 1994-06-06  
Spill Record Last Update: 1995-02-23  
Spiller Name: Not reported  
Spiller Company: AMOCO  
Spiller Address: Not reported  
Spiller County: 999  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extension: Not reported  
DEC Region: 1  
DER Facility ID: 91636  
DEC Memo: ""  
Remarks: "TYREE TESTER, LINE FAILURE"

**All TTF:**

Facility ID: 9403110  
Spill Number: 9403110  
Spill Tank Test: 1542816  
Site ID: 103635  
Tank Number: Not reported  
Tank Size: 0  
Material: 0009  
EPA UST: Not reported  
UST: Not reported  
Cause: Not reported  
Source: Not reported  
Test Method: 00  
Test Method 2: Unknown  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified Date: Not reported

**All Materials:**

Site ID: 103635  
Operable Unit ID: 1000137  
Operable Unit: 01  
Material ID: 383281  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**SPILLS:**

Facility ID: 9102566  
Facility Type: ER  
Spill Number: 9102566



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO (Continued)**

**S101102378**

DER Facility ID: 68521  
Site ID: 72625  
DEC Region: 1  
Closed Date: 1991-06-11  
Spill Cause: Human Error  
Spill Class: Not reported  
SWIS: 5200  
Spill Date: 1991-06-04  
Investigator: KMYAGER  
Referred To: Not reported  
Reported to Dept: 1991-06-04  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other  
Cleanup Ceased: 1991-06-11  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1991-06-05  
Spill Record Last Update: 1991-06-12  
Spiller Name: Not reported  
Spiller Company: AMOCO S/S  
Spiller Address: 635 SMITHTOWN AVENUE  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
DEROSA 06/11/91: SPILL CONTAINED AND CLEANED UP. NO FURTHER ACTION. "  
Remarks: "CAR PULLED AWAY WITH NOZZLE STILL IN TANK, SPILL WAS CONTAINED. FUEL  
WILL BE PUMPED BACK INTO TANK"

**All Materials:**

Site ID: 72625  
Operable Unit ID: 953471  
Operable Unit: 01  
Material ID: 425077  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 4.00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

Facility ID: 9111391  
Facility Type: ER  
Spill Number: 9111391  
DER Facility ID: 345780  
Site ID: 72626  
DEC Region: 1  
Closed Date: 1992-02-11  
Spill Cause: Human Error  
Spill Class: B3  
SWIS: 5228



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO (Continued)**

**S101102378**

Spill Date: 1992-02-04  
Investigator: RICE  
Referred To: Not reported  
Reported to Dept: 1992-02-04  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Other  
Cleanup Ceased: 1992-02-11  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1992-02-05  
Spill Record Last Update: 2015-01-06  
Spiller Name: Not reported  
Spiller Company: VINCENT DISCALO (CUSTOMER)  
Spiller Address: 136 CARROLL AVENUE  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
RICE 2/7/92 SITE CHECKED, SPILL CLEANED UP. NO FURTHER ACTION  
REQUESTED AT THIS TIME"  
Remarks: "SPILL CONTAINED ON PAVEMENT, DEALER APPLIED ABSORBANT"

**All Materials:**

Site ID: 72626  
Operable Unit ID: 965110  
Operable Unit: 01  
Material ID: 416425  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

Facility ID: 9202954  
Facility Type: ER  
Spill Number: 9202954  
DER Facility ID: 345780  
Site ID: 72627  
DEC Region: 1  
Closed Date: 1996-01-29  
Spill Cause: Unknown  
Spill Class: B3  
SWIS: 5228  
Spill Date: 1992-05-29  
Investigator: KMYAGER  
Referred To: Not reported  
Reported to Dept: 1992-06-10  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO (Continued)**

**S101102378**

Spill Notifier: Local Agency  
Cleanup Ceased: Not reported  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1992-06-11  
Spill Record Last Update: 2008-04-14  
Spiller Name: Not reported  
Spiller Company: AMOCO S/S  
Spiller Address: Not reported  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
DEROSA WELL "  
Remarks: "SITE ASSESSMENT SHOWS: 18,885 PPB VOC'S IN WATER & 458,475 PPB VOC'S  
IN SOIL"

**All Materials:**

Site ID: 72627  
Operable Unit ID: 970267  
Operable Unit: 01  
Material ID: 410781  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

Facility ID: 9412772  
Facility Type: ER  
Spill Number: 9412772  
DER Facility ID: 68521  
Site ID: 72628  
DEC Region: 1  
Closed Date: 1994-12-29  
Spill Cause: Other  
Spill Class: C3  
SWIS: 5200  
Spill Date: 1994-12-21  
Investigator: SCHULZ  
Referred To: Not reported  
Reported to Dept: 1994-12-23  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Affected Persons  
Cleanup Ceased: 1994-12-29  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMOCO (Continued)**

**S101102378**

Date Entered In Computer: 1994-12-27  
Spill Record Last Update: 1994-12-30  
Spiller Name: Not reported  
Spiller Company: AMOCO STATION  
Spiller Address: Not reported  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: ""  
Remarks: "ATTEMPTED TO USE GAS PUMP, NO HOSE ON PUMP THEY WERE USING, NO SIGN STATING PUMP WAS OUT OF SERVICE, SCPD ON SCENE,"

All Materials:  
Site ID: 72628  
Operable Unit ID: 1006396  
Operable Unit: 01  
Material ID: 375064  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**H35  
WNW  
1/8-1/4  
0.213 mi.  
1122 ft.**

**TARTAN OIL CO  
635 SMITHTOWN AVE  
BOHEMIA, NY 11716**

**Site 3 of 3 in cluster H**

**RCRA NonGen / NLR 1004571542  
ICIS NYD986931954  
FINDS  
ECHO  
NY MANIFEST**

**Relative:  
Higher**

**Actual:  
47 ft.**

RCRA NonGen / NLR:  
Date form received by agency: 01/01/2007  
Facility name: TARTAN OIL CO  
Facility address: 635 SMITHTOWN AVE  
BOHEMIA, NY 11716  
EPA ID: NYD986931954  
Mailing address: PO BOX 1017  
MELVILLE, NY 11747  
Contact: ALLEN LEON  
Contact address: PO BOX 1017  
MELVILLE, NY 11747  
Contact country: US  
Contact telephone: 516-420-8080  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:  
Owner/operator name: TARTAN OIL CO  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: 212-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TARTAN OIL CO (Continued)**

**1004571542**

Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported  
  
Owner/operator name: TARTAN OIL CO  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
  
Owner/operator country: US  
Owner/operator telephone: 212-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 01/01/2006  
Site name: TARTAN OIL CO  
Classification: Not a generator, verified  
  
Date form received by agency: 11/29/1990  
Site name: TARTAN OIL CO  
Classification: Conditionally Exempt Small Quantity Generator  
  
. Waste code: D001  
. Waste name: IGNITABLE WASTE  
  
Violation Status: No violations found

**ICIS:**

Enforcement Action ID: 02-1990-0098  
FRS ID: 110004456703  
Action Name: TARTAN OIL CO  
Facility Name: TARTAN OIL CO  
Facility Address: 635 SMITHTOWN AVE  
BOHEMIA, NY 11716



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TARTAN OIL CO (Continued)**

**1004571542**

Enforcement Action Type: CAA 113 Notice Of Violation  
Facility County: SUFFOLK  
Program System Acronym: ICIS  
Enforcement Action Forum Desc: Administrative - Formal  
EA Type Code: 113  
Facility SIC Code: Not reported  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 40.756196  
Longitude in Decimal Degrees: -73.106782  
Permit Type Desc: Not reported  
Program System Acronym: 25626  
Facility NAICS Code: Not reported  
Tribal Land Code: Not reported

Facility Name: TARTAN OIL CO  
Address: 635 SMITHTOWN AVE  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

Facility Name: TARTAN OIL CO  
Address: 635 SMITHTOWN AVE  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

**FINDS:**

Registry ID: 110004456703

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TARTAN OIL CO (Continued)**

**1004571542**

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1004571542  
Registry ID: 110004456703  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110004456703>

**NY MANIFEST:**

Country: USA  
EPA ID: NYD986931954  
Facility Status: Not reported  
Location Address 1: SUNRISE HWY & SMITHTOWN AVE  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: BOHEMIA  
Location State: NY  
Location Zip: 11716  
Location Zip 4: Not reported

**NY MANIFEST:**

EPAID: NYD986931954  
Mailing Name: TARTAN OIL COMPANY  
Mailing Contact: TARTAN OIL COMPANY  
Mailing Address 1: SUNRISE HWY & SMITHTOWN AVE  
Mailing Address 2: Not reported  
Mailing City: BOHEMIA  
Mailing State: NY  
Mailing Zip: 11716  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 0000000000

**NY MANIFEST:**

Document ID: NJA0783401  
Manifest Status: K  
seq: Not reported  
Year: 1990  
Trans1 State ID: NJDEPS103  
Trans2 State ID: Not reported  
Generator Ship Date: 12/06/1990  
Trans1 Recv Date: 12/06/1990  
Trans2 Recv Date: / /  
TSD Site Recv Date: 12/06/1990  
Part A Recv Date: 01/10/1991  
Part B Recv Date: 01/16/1991  
Generator EPA ID: NYD986931954  
Trans1 EPA ID: NJD982280851  
Trans2 EPA ID: Not reported  
TSDF ID 1: NJD002200046  
TSDF ID 2: Not reported  
Manifest Tracking Number: Not reported  
Import Indicator: Not reported  
Export Indicator: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TARTAN OIL CO (Continued)**

**1004571542**

Discr Quantity Indicator: Not reported  
Discr Type Indicator: Not reported  
Discr Residue Indicator: Not reported  
Discr Partial Reject Indicator: Not reported  
Discr Full Reject Indicator: Not reported  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: Not reported  
Waste Code: D001 - NON-LISTED IGNITABLE WASTES  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 00220  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 004  
Container Type: DM - Metal drums, barrels  
Handling Method: B Incineration, heat recovery, burning.  
Specific Gravity: 100

[Click this hyperlink](#) while viewing on your computer to access additional NY\_MANIFEST: detail in the EDR Site Report.

**36**  
**NNE**  
**1/8-1/4**  
**0.241 mi.**  
**1272 ft.**

**CHASE MANHATTAN BANK**  
**5141 RTE 27 SUNRISE HWY**  
**BOHEMIA, NY 11716**

**NY UST** **U003538766**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**45 ft.**

SUFFOLK CO. UST:  
Region: SUFFOLK  
Site Ref#: 09151  
Status: Not reported  
Site Type: Not reported  
Operating Permit Expires: Not reported  
Owner/Storage Information: Not reported

Facility Info:  
Site Ref#: 09151  
Billing Contact: Not reported  
Billing Address: Not reported  
Billing Address: Not reported  
Billing State: Not reported  
Billing Zip: Not reported  
Storage Owner: SUNRISE REALTY ASSOCIATES  
Storage Owner Address: 341 BROAD ST  
Storage Owner City: CLIFTON  
Storage Owner State: NJ  
Storage Owner Zip: 07015

Tank Info:  
Facility ID: 09151  
Facility Reference #: 11092  
Official Use: Removed Tank. 99  
Township: ISLIP



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHASE MANHATTAN BANK (Continued)**

**U003538766**

Tax Map No: 0500 257.00 004 001.000  
Region: SUFFOLK  
Permit to Operate: Not reported  
  
Tank ID: 1  
Tank Key: 25779  
Installed: Not reported  
Capacity: 0000002000  
Substance: #2 FUEL OIL  
Date Removed: 052099  
Construction: STEEL  
Dispenser: SUCTION  
Fill Type: PUMPED  
Tank Location: UNDER  
Tank Status: Not reported  
Total Capacity: 0000002000  
Date Permitted: Not reported  
Date Closed: Not reported  
Internal Protection: Not reported  
Secondary Containment: Not reported  
Extrenal Protection: Not reported  
Leak Detection: Not reported  
Overfill Prevention: Not reported  
Spill Prevention: Not reported  
Pipe Location: Not reported  
Pipe Type: Not reported  
Pipe External Protection: Not reported  
Pipe Containment: Not reported  
Pipe Leak Detection: Not reported  
Date Next Tank Test: Not reported  
Fill: PUMPED  
Date Removed: 052099  
Year Installed: Not reported  
Description of drop records: RECORDS AS OF 09/10/2013

37  
SSE  
1/8-1/4  
0.245 mi.  
1292 ft.

**WEST SAYVILLE IFS TRANSMITTER  
CHERRY AVE  
WEST SAYVILLE, NY 11796**

**SEMS-ARCHIVE 1000393751  
RCRA NonGen / NLR NY8690536208  
NY MANIFEST**

**Relative:  
Lower  
  
Actual:  
26 ft.**

SEMS Archive:  
Site ID: 203780  
EPA ID: NY8690536208  
Cong District: 2  
FIPS Code: 36103  
FF: Y  
NPL: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:  
Region: 2  
Site ID: 203780  
EPA ID: NY8690536208  
Site Name: WEST SAYVILLE IFS TRANSMITTER  
NPL: N  
FF: Y



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WEST SAYVILLE IFS TRANSMITTER (Continued)**

**1000393751**

OU: 0  
Action Code: VS  
Action Name: ARCH SITE  
SEQ: 1  
Start Date: Not reported  
Finish Date: 1997-01-31 00:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf In-Hse

Region: 2  
Site ID: 203780  
EPA ID: NY8690536208  
Site Name: WEST SAYVILLE IFS TRANSMITTER  
NPL: N  
FF: Y  
OU: 0  
Action Code: PA  
Action Name: PA  
SEQ: 2  
Start Date: Not reported  
Finish Date: 1996-09-10 00:00:00  
Qual: N  
Current Action Lead: EPA Perf

Region: 2  
Site ID: 203780  
EPA ID: NY8690536208  
Site Name: WEST SAYVILLE IFS TRANSMITTER  
NPL: N  
FF: Y  
OU: 0  
Action Code: DS  
Action Name: DISCVRY  
SEQ: 1  
Start Date: 1993-04-21 00:00:00  
Finish Date: 1993-04-21 00:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 2  
Site ID: 203780  
EPA ID: NY8690536208  
Site Name: WEST SAYVILLE IFS TRANSMITTER  
NPL: N  
FF: Y  
OU: 0  
Action Code: PA  
Action Name: PA  
SEQ: 1  
Start Date: Not reported  
Finish Date: 1994-08-30 00:00:00  
Qual: H  
Current Action Lead: Fed Fac

RCRA NonGen / NLR:  
Date form received by agency: 01/01/2007



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WEST SAYVILLE IFS TRANSMITTER (Continued)**

**1000393751**

Facility name: WEST SAYVILLE IFS TRANSMITTER  
Facility address: CHERRY AVE  
WEST SAYVILLE, NY 11796  
EPA ID: NY8690536208  
Mailing address: AIRWAYS RD  
RONKONKOMA, NY 11779  
Contact: Not reported  
Contact address: AIRWAYS RD  
RONKONKOMA, NY 11779  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 02  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: USDOT/FAA  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: 212-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Federal  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: USDOT/FAA  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, WY 99999  
Owner/operator country: US  
Owner/operator telephone: 212-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Federal  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WEST SAYVILLE IFS TRANSMITTER (Continued)**

**1000393751**

Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 01/01/2006  
Site name: WEST SAYVILLE IFS TRANSMITTER  
Classification: Not a generator, verified

Date form received by agency: 07/08/1999  
Site name: WEST SAYVILLE IFS TRANSMITTER  
Classification: Not a generator, verified

Date form received by agency: 02/15/1996  
Site name: DOT FAA WEST SAYVILLE IFST  
Classification: Large Quantity Generator

Date form received by agency: 04/16/1990  
Site name: WEST SAYVILLE IFS TRANSMITTER  
Classification: Large Quantity Generator

. Waste code: X002  
. Waste name: POLYCHLORINATED BIPHENOLS (PCBs)

Violation Status: No violations found

**NY MANIFEST:**

Country: USA  
EPA ID: NY8690536208  
Facility Status: Not reported  
Location Address 1: FED.AVIATION ADM.CHERRY AVENUE  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: WEST SAYVILLE  
Location State: NY  
Location Zip: 11796  
Location Zip 4: Not reported

**NY MANIFEST:**

EPAID: NY8690536208  
Mailing Name: UNITED STATES MILITARY  
Mailing Contact: RONALD DESIMONE  
Mailing Address 1: MACARTHUR AIRPORT/FED AVIATION  
Mailing Address 2: Not reported  
Mailing City: RONKONKOMA  
Mailing State: NY  
Mailing Zip: 11779  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 5166832883

**NY MANIFEST:**

Document ID: NYB8565777  
Manifest Status: K  
seq: Not reported  
Year: 1996



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WEST SAYVILLE IFS TRANSMITTER (Continued)**

**1000393751**

Trans1 State ID: Not reported  
Trans2 State ID: Not reported  
Generator Ship Date: 11/27/1996  
Trans1 Recv Date: 11/27/1996  
Trans2 Recv Date: / /  
TSD Site Recv Date: 11/27/1996  
Part A Recv Date: 12/20/1996  
Part B Recv Date: 01/10/1997  
Generator EPA ID: NY8690536208  
Trans1 EPA ID: NY0000936385  
Trans2 EPA ID: Not reported  
TSDF ID 1: NYD077444263  
TSDF ID 2: Not reported  
Manifest Tracking Number: Not reported  
Import Indicator: Not reported  
Export Indicator: Not reported  
Discr Quantity Indicator: Not reported  
Discr Type Indicator: Not reported  
Discr Residue Indicator: Not reported  
Discr Partial Reject Indicator: Not reported  
Discr Full Reject Indicator: Not reported  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: Not reported  
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 00080  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 002  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100

[Click this hyperlink](#) while viewing on your computer to access  
6 additional NY\_MANIFEST: record(s) in the EDR Site Report.

**38**  
**ENE**  
**1/4-1/2**  
**0.310 mi.**  
**1638 ft.**

**PAUL SCHNECBERG & SONS**  
**286 JOHNSON AVENUE**  
**SAYVILLE, NY**

**NY LTANKS S100491996**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**47 ft.**

LTANKS:  
Facility ID: 9209189  
Site ID: 131600  
Closed Date: 1997-03-05  
Spill Number: 9209189  
Spill Date: 1992-11-07  
Spill Cause: Tank Test Failure  
Spill Source: Commercial/Industrial  
Spill Class: B3  
Cleanup Ceased: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL SCHNECBERG & SONS (Continued)**

**S100491996**

SWIS: 5200  
Investigator: KMYAGER  
Referred To: Not reported  
Reported to Dept: 1992-11-07  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Responsible Party  
Last Inspection: Not reported  
Recommended Penalty: False  
Meets Standard: True  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1992-11-09  
Spill Record Last Update: 1997-07-02  
Spiller Name: Not reported  
Spiller Company: PAUL SCHNECBERG & SONS  
Spiller Address: 286 JOHNSON AVENUE  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 113384  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
SOTTILE WELL "  
Remarks: "30K FAILED AT -.210, BONAFIDE TESTER, WILL EXCAVATE ISOLATE AND  
RETEST"

**All TTF:**

Facility ID: 9209189  
Spill Number: 9209189  
Spill Tank Test: 1540828  
Site ID: 131600  
Tank Number: Not reported  
Tank Size: 0  
Material: 0002  
EPA UST: Not reported  
UST: Not reported  
Cause: Not reported  
Source: Not reported  
Test Method: 00  
Test Method 2: Unknown  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified Date: Not reported

**All Materials:**

Site ID: 131600  
Operable Unit ID: 975891  
Operable Unit: 01  
Material ID: 406251  
Material Code: 0002A  
Material Name: #4 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAUL SCHNECBERG & SONS (Continued)**

**S100491996**

Units: G  
Recovered: .00  
Oxygenate: Not reported

**39**  
**ENE**  
**1/4-1/2**  
**0.402 mi.**  
**2120 ft.**

**SAYVILLE MIDDLE SCHOOL**  
**291 JOHNSON AVE**  
**SAYVILLE, NY**

**NY LTANKS** **S100559897**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**48 ft.**

**LTANKS:**

Facility ID: 9303436  
Site ID: 324204  
Closed Date: 1994-02-09  
Spill Number: 9303436  
Spill Date: 1993-06-15  
Spill Cause: Tank Test Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: C3  
Cleanup Ceased: 1994-02-09  
SWIS: 5228  
Investigator: T/T/F  
Referred To: Not reported  
Reported to Dept: 1993-06-15  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
Meets Standard: True  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1993-06-21  
Spill Record Last Update: 2014-08-18  
Spiller Name: TONY CRISPI BUILDINGS AND GROUND  
Spiller Company: SAYVILLE SCHOOLS  
Spiller Address: 99 GREELEY AVE  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 261151  
DEC Memo: "NOTIFIED SCHD PASSED TANK ALONG 7/3/93 SYSTEM PASSED RETEST 7/26/93, REPLACED VENT SUPPLY AND RETURN LINES. REPLACED REMOTE FILL WITH DIRECT FILL, ~ 5 GALLONS OF CONTAMINATED SOIL PLACED ON STOCKPILE AT CHERRY AVE SCHOOL (93-03485)"

Remarks: "15K FAILED GROSS LEAK, BONAFIDE TESTER"

**All TTF:**

Facility ID: 9303436  
Spill Number: 9303436  
Spill Tank Test: 1541658  
Site ID: 324204  
Tank Number: Not reported  
Tank Size: 0  
Material: 0001



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAYVILLE MIDDLE SCHOOL (Continued)**

**S100559897**

EPA UST: Not reported  
UST: Not reported  
Cause: Not reported  
Source: Not reported  
Test Method: 00  
Test Method 2: Unknown  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified Date: Not reported

**All Materials:**

Site ID: 324204  
Operable Unit ID: 981769  
Operable Unit: 01  
Material ID: 397010  
Material Code: 0001A  
Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**40  
NE  
1/4-1/2  
0.408 mi.  
2156 ft.**

**EXXON COMPANY U S A  
5230 SUNRISE HWY & JOHNS  
SAYVILLE, NY 11782**

**NY LTANKS  
NY Spills  
NY MANIFEST**

**S102092153  
N/A**

**Relative:  
Higher  
Actual:  
51 ft.**

**LTANKS:**

Facility ID: 8607082  
Site ID: 297806  
Closed Date: 1987-03-26  
Spill Number: 8607082  
Spill Date: 1987-02-19  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station or other PBS Facility  
Spill Class: Not reported  
Cleanup Ceased: 1987-03-26  
SWIS: 5228  
Investigator: JEAN-LOUIS  
Referred To: Not reported  
Reported to Dept: 1987-02-20  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
Meets Standard: True  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 1987-02-24  
Spill Record Last Update: 2005-08-15  
Spiller Name: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON COMPANY U S A (Continued)**

**S102092153**

Spiller Company: EXXON  
Spiller Address: Not reported  
Spiller County: 999  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 298236  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
JEAN-LOUIS FD / / : 3/26/87 ALL 3 TANKS RETESTED ON 3/10/87.NO  
REPAIRS.6KTANKS PASSED,10K FAILED. AFTER REPAIRS ON VAPOR RECOVERY  
SYSTEMS,10K PASSED. FILE HAS BEEN DESTROYED ACCORDING TO STATE  
ARCHIVE AND RECORD ADMINISTRATOR RETENTION/DISPOSAL PROCEDURES "  
Remarks: "PROBLEM WITH VAPOR RECOVERY. 5 YEAR OLD TANKS."

**All TTF:**

Facility ID: 8607082  
Spill Number: 8607082  
Spill Tank Test: 1530586  
Site ID: 297806  
Tank Number: Not reported  
Tank Size: 0  
Material: 0009  
EPA UST: Not reported  
UST: Not reported  
Cause: Not reported  
Source: Not reported  
Test Method: 00  
Test Method 2: Unknown  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified Date: Not reported

**All Materials:**

Site ID: 297806  
Operable Unit ID: 904674  
Operable Unit: 01  
Material ID: 472616  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

Facility ID: 8607524  
Site ID: 297807  
Closed Date: 1987-03-26  
Spill Number: 8607524  
Spill Date: 1987-03-10  
Spill Cause: Tank Test Failure  
Spill Source: Gasoline Station or other PBS Facility  
Spill Class: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON COMPANY U S A (Continued)**

**S102092153**

Cleanup Ceased: 1987-03-26  
SWIS: 5228  
Investigator: JEAN-LOUIS  
Referred To: Not reported  
Reported to Dept: 1987-03-10  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Tank Tester  
Last Inspection: Not reported  
Recommended Penalty: False  
Meets Standard: True  
UST Involvement: True  
Remediation Phase: 0  
Date Entered In Computer: 1987-03-16  
Spill Record Last Update: 2005-08-12  
Spiller Name: Not reported  
Spiller Company: EXXON  
Spiller Address: Not reported  
Spiller County: 999  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extension: Not reported  
DEC Region: 1  
DER Facility ID: 298236  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
JEAN-LOUIS FD / / : TANK TO BE UNCOVERED.3/26/87 BAD VENT LINE  
REPAIRED.TANK PASSED RETEST. FILE HAS BEEN DESTROYED ACCORDING TO  
STATE ARCHIVE AND RECORD ADMINISTRATOR RETENTION/DISPOSAL PROCEDURES"

Remarks: "LEAK RATE -.301 GPH 10K TANK"

**All TTF:**

Facility ID: 8607524  
Spill Number: 8607524  
Spill Tank Test: 1530625  
Site ID: 297807  
Tank Number: Not reported  
Tank Size: 0  
Material: 0009  
EPA UST: Not reported  
UST: Not reported  
Cause: Not reported  
Source: Not reported  
Test Method: 00  
Test Method 2: Unknown  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified Date: Not reported

**All Materials:**

Site ID: 297807  
Operable Unit ID: 904112  
Operable Unit: 01  
Material ID: 473023  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON COMPANY U S A (Continued)**

**S102092153**

Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**SPILLS:**

Facility ID: 9210916  
Facility Type: ER  
Spill Number: 9210916  
DER Facility ID: 106199  
Site ID: 122496  
DEC Region: 1  
Closed Date: 1992-12-21  
Spill Cause: Human Error  
Spill Class: C4  
SWIS: 5200  
Spill Date: 1992-12-20  
Investigator: UNASSIGNED  
Referred To: Not reported  
Reported to Dept: 1992-12-21  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Affected Persons  
Cleanup Ceased: 1992-12-21  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1992-12-21  
Spill Record Last Update: 2004-09-30  
Spiller Name: Not reported  
Spiller Company: UNK  
Spiller Address: Not reported  
Spiller Company: 999  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
NONE "  
Remarks: "CUSTOMER DROVED OFF WITH NOZZLE IN TANK, FUEL LEAKED ONTO PAVED  
AREA, NO DETAILS ON CLEANUP, NO RESPONSE NEEDED"

**All Materials:**

Site ID: 122496  
Operable Unit ID: 977823  
Operable Unit: 01  
Material ID: 404351  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: 1.00  
Units: G  
Recovered: .00  
Oxygenate: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON COMPANY U S A (Continued)**

**S102092153**

Facility ID: 9202958  
Facility Type: ER  
Spill Number: 9202958  
DER Facility ID: 240942  
Site ID: 297808  
DEC Region: 1  
Closed Date: 1994-12-07  
Spill Cause: Unknown  
Spill Class: B3  
SWIS: 5200  
Spill Date: 1992-05-29  
Investigator: KMYAGER  
Referred To: Not reported  
Reported to Dept: 1992-06-10  
CID: Not reported  
Water Affected: Not reported  
Spill Source: Gasoline Station or other PBS Facility  
Spill Notifier: Local Agency  
Cleanup Ceased: 1994-12-07  
Cleanup Meets Std: True  
Last Inspection: Not reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 1992-06-12  
Spill Record Last Update: 1997-07-01  
Spiller Name: Not reported  
Spiller Company: EXXON S/S  
Spiller Address: Not reported  
Spiller Company: 001  
Contact Name: Not reported  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
DEROSA WELL "  
Remarks: "SITE ASSESSMENT SHOWS: WATER AT 3,398 PPB VOC'S SOIL AT 5 PPB VOC'S"

**All Materials:**

Site ID: 297808  
Operable Unit ID: 966974  
Operable Unit: 01  
Material ID: 410784  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**NY MANIFEST:**

Country: USA  
EPA ID: NYD986949436  
Facility Status: Not reported  
Location Address 1: 5230 SUNRISE HIGHWAY  
Code: BP  
Location Address 2: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON COMPANY U S A (Continued)**

**S102092153**

Total Tanks: Not reported  
Location City: SAYVILLE  
Location State: NY  
Location Zip: 11782  
Location Zip 4: Not reported

**NY MANIFEST:**

EPAID: NYD986949436  
Mailing Name: EXXON COMPANY U S A  
Mailing Contact: GEORGE K OSGOOD  
Mailing Address 1: P O BOX 2180 STATION 37479  
Mailing Address 2: Not reported  
Mailing City: HOUSTON  
Mailing State: TX  
Mailing Zip: 77252  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 7136567709

**NY MANIFEST:**

Document ID: NYB2443374  
Manifest Status: C  
seq: Not reported  
Year: 1991  
Trans1 State ID: LL5554  
Trans2 State ID: Not reported  
Generator Ship Date: 07/25/1991  
Trans1 Recv Date: 07/26/1991  
Trans2 Recv Date: / /  
TSD Site Recv Date: 07/26/1991  
Part A Recv Date: 09/06/1991  
Part B Recv Date: 08/05/1991  
Generator EPA ID: NYD986949436  
Trans1 EPA ID: NYD068011352  
Trans2 EPA ID: Not reported  
TSDF ID 1: NYD082785429  
TSDF ID 2: Not reported  
Manifest Tracking Number: Not reported  
Import Indicator: Not reported  
Export Indicator: Not reported  
Discr Quantity Indicator: Not reported  
Discr Type Indicator: Not reported  
Discr Residue Indicator: Not reported  
Discr Partial Reject Indicator: Not reported  
Discr Full Reject Indicator: Not reported  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: Not reported  
Waste Code: D008 - LEAD 5.0 MG/L TCLP  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 01705  
Units: G - Gallons (liquids only)\* (8.3 pounds)



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EXXON COMPANY U S A (Continued)**

**S102092153**

Number of Containers: 031  
Container Type: DM - Metal drums, barrels  
Handling Method: T Chemical, physical, or biological treatment.  
Specific Gravity: 100

[Click this hyperlink](#) while viewing on your computer to access  
2 additional NY\_MANIFEST: record(s) in the EDR Site Report.

41  
SSE  
1/4-1/2  
0.427 mi.  
2254 ft.

**GAZALOFF/P&G FUEL  
386 HILLSIDE AVENUE  
WEST SAYVILLE, NY**

**NY LTANKS S103478583  
N/A**

**Relative:  
Lower**

**LTANKS:**

**Actual:  
29 ft.**

Facility ID: 9508717  
Site ID: 77112  
Closed Date: 1995-11-27  
Spill Number: 9508717  
Spill Date: 1995-10-16  
Spill Cause: Tank Overfill  
Spill Source: Tank Truck  
Spill Class: C3  
Cleanup Ceased: Not reported  
SWIS: 5200  
Investigator: SCHULZ  
Referred To: Not reported  
Reported to Dept: 1995-10-16  
CID: 349  
Water Affected: Not reported  
Spill Notifier: Affected Persons  
Last Inspection: Not reported  
Recommended Penalty: False  
Meets Standard: True  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1995-10-16  
Spill Record Last Update: 1998-09-08  
Spiller Name: PHIL DOWELL  
Spiller Company: P&G FUEL  
Spiller Address: 500 PORTION ROAD  
Spiller County: 001  
Spiller Contact: GAZALOFF  
Spiller Phone: (516) 589-2911  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 72000  
DEC Memo: ""  
Remarks: "OIL CAME OUT OF VENT PIPE - DRIVER WAS BY TRUCK , HOMEOWNER SAW OIL COMING OUT OF THE VENT AND YELLED TO THE DRIVER. OIL SPRAYED ON BUSHES & FLOWER BED - DRIVER & HELPER TRIED TO DIG UP SOIL BUT STILL OIL ON GROUND"

**All Materials:**

Site ID: 77112  
Operable Unit ID: 1023070  
Operable Unit: 01



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GAZALOFF/P&G FUEL (Continued)**

**S103478583**

Material ID: 359678  
Material Code: 0001A  
Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported

**42**  
**SSE**  
**1/4-1/2**  
**0.486 mi.**  
**2568 ft.**

**FAIRFIELD PROPERTIES**  
**EAST STREET & SHERRY LANE**  
**BOHEMIA, NY**

**NY LTANKS** **S100169180**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**29 ft.**

**LTANKS:**

Facility ID: 8900985  
Site ID: 257985  
Closed Date: 1989-07-03  
Spill Number: 8900985  
Spill Date: 1989-04-14  
Spill Cause: Tank Test Failure  
Spill Source: Institutional, Educational, Gov., Other  
Spill Class: Not reported  
Cleanup Ceased: 1989-07-03  
SWIS: 5228  
Investigator: AYLEUNG  
Referred To: Not reported  
Reported to Dept: 1989-05-01  
CID: Not reported  
Water Affected: Not reported  
Spill Notifier: Health Department  
Last Inspection: Not reported  
Recommended Penalty: False  
Meets Standard: True  
UST Involvement: False  
Remediation Phase: 0  
Date Entered In Computer: 1989-05-03  
Spill Record Last Update: 2006-04-24  
Spiller Name: Not reported  
Spiller Company: FAIRFIELD PROPERTIES  
Spiller Address: EASY STREET & SHERRY LANE  
Spiller County: 001  
Spiller Contact: Not reported  
Spiller Phone: Not reported  
Spiller Extention: Not reported  
DEC Region: 1  
DER Facility ID: 211233  
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was  
LEUNG FD 07/03/89: ALL TANKS PASSED SYSTEM RETEST. ALL 3 TANKS MAN  
WAY. VENT LINE AND OIL LINE WERE BLEED PRIOR TO RETEST. FILE HAS BEEN  
DESTROYED ACCORDING TO STATE ARCHIVE AND RECORD ADMINISTRATOR  
RETENTION/DISPOSAL PROCEDURES"

Remarks: "3-1K TANKS TEST RUN NOT LONG ENOUGH.DID NOT KNOW OF TANK FAILURE  
UNTIL LETTER WAS RECEIVED FROM H.D.ALL TANKS PASSED RETEST."



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAIRFIELD PROPERTIES (Continued)**

**S100169180**

All TTF:

Facility ID: 8900985  
Spill Number: 8900985  
Spill Tank Test: 1535407  
Site ID: 257985  
Tank Number: Not reported  
Tank Size: 0  
Material: 0001  
EPA UST: Not reported  
UST: Not reported  
Cause: Not reported  
Source: Not reported  
Test Method: 00  
Test Method 2: Unknown  
Leak Rate: .00  
Gross Fail: Not reported  
Modified By: Spills  
Last Modified Date: Not reported

All Materials:

Site ID: 257985  
Operable Unit ID: 927122  
Operable Unit: 01  
Material ID: 452301  
Material Code: 0001A  
Material Name: #2 fuel oil  
Case No.: Not reported  
Material FA: Petroleum  
Quantity: .00  
Units: G  
Recovered: .00  
Oxygenate: Not reported



Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BOHEMIA	S121102064	BOSTI ELEMENTARY SCHOOL	4 BOURNE BLVD		NY LTANKS
BOHEMIA	1003864248	LINCOLN AVENUE	LINCOLN AV. BETWEEN (CHURCH ST	11716	SEMS-ARCHIVE, PRP
BOHEMIA	S105972405	S.C.W.A. WELLFIELD - BOHEMIA	LOCUST AVENUE	11716	NY SHWS
FIRE ISLAND PINES	S113916573	FIRE ISLAND L.F.	152056 FIRE ISLAND L.F.	11782	NY SHWS



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/11/2017	Source: EPA
Date Data Arrived at EDR: 12/22/2017	Telephone: N/A
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 04/27/2018
Number of Days to Update: 14	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/11/2017	Source: EPA
Date Data Arrived at EDR: 12/22/2017	Telephone: N/A
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 04/27/2018
Number of Days to Update: 14	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ***Federal Delisted NPL site list***

#### Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/11/2017	Source: EPA
Date Data Arrived at EDR: 12/22/2017	Telephone: N/A
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 04/27/2018
Number of Days to Update: 14	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Quarterly

### ***Federal CERCLIS list***

#### FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 04/06/2018
Number of Days to Update: 92	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Varies

#### SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/09/2018	Source: EPA
Date Data Arrived at EDR: 02/06/2018	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 04/27/2018
Number of Days to Update: 66	Next Scheduled EDR Contact: 07/30/2018
	Data Release Frequency: Quarterly

### ***Federal CERCLIS NFRAP site list***

#### SEMS-ARCHIVE: Superfund Enterprise Management System Archive



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/09/2018	Source: EPA
Date Data Arrived at EDR: 02/06/2018	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 04/27/2018
Number of Days to Update: 66	Next Scheduled EDR Contact: 07/30/2018
	Data Release Frequency: Quarterly

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/11/2017	Source: EPA
Date Data Arrived at EDR: 12/26/2017	Telephone: 800-424-9346
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/11/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/26/2017	Telephone: (212) 637-3660
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

### ***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/11/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/26/2017	Telephone: (212) 637-3660
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/11/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/26/2017	Telephone: (212) 637-3660
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/11/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/26/2017	Telephone: (212) 637-3660
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

### ***Federal institutional controls / engineering controls registries***

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/16/2018	Source: Department of the Navy
Date Data Arrived at EDR: 02/22/2018	Telephone: 843-820-7326
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 05/09/2018
Number of Days to Update: 78	Next Scheduled EDR Contact: 08/27/2018
	Data Release Frequency: Varies

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/27/2018	Telephone: 703-603-0695
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 02/27/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 06/11/2018
	Data Release Frequency: Varies

#### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/27/2018	Telephone: 703-603-0695
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 02/27/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 06/11/2018
	Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 01/16/2018

Date Data Arrived at EDR: 01/19/2018

Date Made Active in Reports: 03/23/2018

Number of Days to Update: 63

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 03/27/2018

Next Scheduled EDR Contact: 07/09/2018

Data Release Frequency: Quarterly

## ***State- and tribal - equivalent CERCLIS***

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 02/12/2018

Date Data Arrived at EDR: 02/14/2018

Date Made Active in Reports: 03/27/2018

Number of Days to Update: 41

Source: Department of Environmental Conservation

Telephone: 518-402-9622

Last EDR Contact: 05/16/2018

Next Scheduled EDR Contact: 08/27/2018

Data Release Frequency: Annually

## ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/08/2017

Date Data Arrived at EDR: 01/02/2018

Date Made Active in Reports: 01/31/2018

Number of Days to Update: 29

Source: Department of Environmental Conservation

Telephone: 518-457-2051

Last EDR Contact: 04/02/2018

Next Scheduled EDR Contact: 07/16/2018

Data Release Frequency: Quarterly

## ***State and tribal leaking storage tank lists***

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/16/2017

Date Data Arrived at EDR: 01/23/2018

Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA, Region 5

Telephone: 312-886-7439

Last EDR Contact: 05/18/2018

Next Scheduled EDR Contact: 08/06/2018

Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/24/2017

Date Data Arrived at EDR: 01/23/2018

Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 10

Telephone: 206-553-2857

Last EDR Contact: 05/18/2018

Next Scheduled EDR Contact: 08/06/2018

Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/14/2017  
Date Data Arrived at EDR: 01/23/2018  
Date Made Active in Reports: 04/13/2018  
Number of Days to Update: 80

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 05/18/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2017  
Date Data Arrived at EDR: 01/23/2018  
Date Made Active in Reports: 04/13/2018  
Number of Days to Update: 80

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 05/16/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/30/2017  
Date Data Arrived at EDR: 01/23/2018  
Date Made Active in Reports: 04/13/2018  
Number of Days to Update: 80

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 05/18/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2017  
Date Data Arrived at EDR: 01/23/2018  
Date Made Active in Reports: 04/13/2018  
Number of Days to Update: 80

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 05/18/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2017  
Date Data Arrived at EDR: 01/23/2018  
Date Made Active in Reports: 04/13/2018  
Number of Days to Update: 80

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 05/18/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/06/2018  
Date Data Arrived at EDR: 01/23/2018  
Date Made Active in Reports: 04/13/2018  
Number of Days to Update: 80

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 05/18/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Varies

LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 02/12/2018  
Date Data Arrived at EDR: 02/14/2018  
Date Made Active in Reports: 03/16/2018  
Number of Days to Update: 30

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 05/16/2018  
Next Scheduled EDR Contact: 08/27/2018  
Data Release Frequency: Varies



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 07/08/2005  
Date Made Active in Reports: 07/14/2005  
Number of Days to Update: 6

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 07/07/2005  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### **State and tribal registered storage tank lists**

#### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017  
Date Data Arrived at EDR: 05/30/2017  
Date Made Active in Reports: 10/13/2017  
Number of Days to Update: 136

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 04/13/2018  
Next Scheduled EDR Contact: 07/23/2018  
Data Release Frequency: Varies

#### UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 03/26/2018  
Date Data Arrived at EDR: 03/28/2018  
Date Made Active in Reports: 04/27/2018  
Number of Days to Update: 30

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 03/28/2018  
Next Scheduled EDR Contact: 07/09/2018  
Data Release Frequency: No Update Planned

#### CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 02/20/2002  
Date Made Active in Reports: 03/22/2002  
Number of Days to Update: 30

Source: NYSDEC  
Telephone: 518-402-9549  
Last EDR Contact: 10/24/2005  
Next Scheduled EDR Contact: 01/23/2006  
Data Release Frequency: No Update Planned

#### MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 02/20/2002  
Date Made Active in Reports: 03/22/2002  
Number of Days to Update: 30

Source: NYSDEC  
Telephone: 518-402-9549  
Last EDR Contact: 07/25/2005  
Next Scheduled EDR Contact: 10/24/2005  
Data Release Frequency: No Update Planned

#### CBS: Chemical Bulk Storage Site Listing

These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 03/26/2018  
Date Data Arrived at EDR: 03/28/2018  
Date Made Active in Reports: 05/14/2018  
Number of Days to Update: 47

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 03/28/2018  
Next Scheduled EDR Contact: 07/09/2018  
Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 03/26/2018  
Date Data Arrived at EDR: 03/28/2018  
Date Made Active in Reports: 05/14/2018  
Number of Days to Update: 47

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 03/28/2018  
Next Scheduled EDR Contact: 07/09/2018  
Data Release Frequency: Quarterly

### AST: Petroleum Bulk Storage

Registered Aboveground Storage Tanks.

Date of Government Version: 03/26/2018  
Date Data Arrived at EDR: 03/28/2018  
Date Made Active in Reports: 04/27/2018  
Number of Days to Update: 30

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 03/28/2018  
Next Scheduled EDR Contact: 07/09/2018  
Data Release Frequency: No Update Planned

### CBS AST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 02/20/2002  
Date Made Active in Reports: 03/22/2002  
Number of Days to Update: 30

Source: NYSDEC  
Telephone: 518-402-9549  
Last EDR Contact: 07/25/2005  
Next Scheduled EDR Contact: 10/24/2005  
Data Release Frequency: No Update Planned

### MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 02/20/2002  
Date Made Active in Reports: 03/22/2002  
Number of Days to Update: 30

Source: NYSDEC  
Telephone: 518-402-9549  
Last EDR Contact: 07/25/2005  
Next Scheduled EDR Contact: 10/24/2005  
Data Release Frequency: No Update Planned

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2017  
Date Data Arrived at EDR: 01/23/2018  
Date Made Active in Reports: 04/13/2018  
Number of Days to Update: 80

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 05/18/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Varies

### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 01/13/2018  
Date Data Arrived at EDR: 01/23/2018  
Date Made Active in Reports: 04/13/2018  
Number of Days to Update: 80

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 05/18/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Varies



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/24/2017	Source: EPA Region 6
Date Data Arrived at EDR: 07/27/2017	Telephone: 214-665-7591
Date Made Active in Reports: 12/08/2017	Last EDR Contact: 05/18/2018
Number of Days to Update: 134	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2017	Source: EPA, Region 1
Date Data Arrived at EDR: 01/23/2018	Telephone: 617-918-1313
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

### INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2017	Source: EPA Region 4
Date Data Arrived at EDR: 01/23/2018	Telephone: 404-562-9424
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/16/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

### INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/16/2017	Source: EPA Region 5
Date Data Arrived at EDR: 01/23/2018	Telephone: 312-886-6136
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

### INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2017	Source: EPA Region 10
Date Data Arrived at EDR: 01/23/2018	Telephone: 206-553-2857
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

### INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/30/2017	Source: EPA Region 9
Date Data Arrived at EDR: 01/23/2018	Telephone: 415-972-3368
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 05/18/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### TANKS: Storage Tank Facility Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 03/26/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 03/28/2018	Telephone: 518-402-9543
Date Made Active in Reports: 04/30/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

### ***State and tribal institutional control / engineering control registries***

#### RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010	Source: NYC Department of City Planning
Date Data Arrived at EDR: 06/30/2014	Telephone: 212-720-3401
Date Made Active in Reports: 07/21/2014	Last EDR Contact: 03/23/2018
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/02/2018
	Data Release Frequency: Varies

#### ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 06/27/2017	Source: New York City Department of City Planning
Date Data Arrived at EDR: 09/21/2017	Telephone: 212-720-3300
Date Made Active in Reports: 09/22/2017	Last EDR Contact: 03/19/2018
Number of Days to Update: 1	Next Scheduled EDR Contact: 07/02/2018
	Data Release Frequency: Varies

#### ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 02/12/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/14/2018	Telephone: 518-402-9553
Date Made Active in Reports: 03/27/2018	Last EDR Contact: 05/16/2018
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/27/2018
	Data Release Frequency: Quarterly

#### INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 02/12/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/14/2018	Telephone: 518-402-9553
Date Made Active in Reports: 03/27/2018	Last EDR Contact: 05/16/2018
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/27/2018
	Data Release Frequency: Quarterly

### ***State and tribal voluntary cleanup sites***

#### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/27/2015  
Date Data Arrived at EDR: 09/29/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 142

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 03/21/2018  
Next Scheduled EDR Contact: 07/09/2018  
Data Release Frequency: Varies

### VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 02/12/2018  
Date Data Arrived at EDR: 02/14/2018  
Date Made Active in Reports: 03/27/2018  
Number of Days to Update: 41

Source: Department of Environmental Conservation  
Telephone: 518-402-9711  
Last EDR Contact: 05/16/2018  
Next Scheduled EDR Contact: 08/27/2018  
Data Release Frequency: Semi-Annually

### VCP NYC: Voluntary Cleanup Program Listing NYC

New York City voluntary cleanup program sites.

Date of Government Version: 03/26/2018  
Date Data Arrived at EDR: 03/29/2018  
Date Made Active in Reports: 05/14/2018  
Number of Days to Update: 46

Source: New York City Office of Environmental Protection  
Telephone: 212-788-8841  
Last EDR Contact: 03/15/2018  
Next Scheduled EDR Contact: 07/02/2018  
Data Release Frequency: Varies

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

### **State and tribal Brownfields sites**

#### BROWNFIELDS: Brownfields Site List

A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 02/12/2018  
Date Data Arrived at EDR: 02/14/2018  
Date Made Active in Reports: 03/27/2018  
Number of Days to Update: 41

Source: Department of Environmental Conservation  
Telephone: 518-402-9764  
Last EDR Contact: 05/16/2018  
Next Scheduled EDR Contact: 08/27/2018  
Data Release Frequency: Semi-Annually

### ERP: Environmental Restoration Program Listing

In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a \$200 million Environmental Restoration or Brownfields Fund as part of the \$1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 02/12/2018  
Date Data Arrived at EDR: 02/14/2018  
Date Made Active in Reports: 03/27/2018  
Number of Days to Update: 41

Source: Department of Environmental Conservation  
Telephone: 518-402-9622  
Last EDR Contact: 05/16/2018  
Next Scheduled EDR Contact: 08/27/2018  
Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ADDITIONAL ENVIRONMENTAL RECORDS

### **Local Brownfield lists**

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 01/19/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-566-2777
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/21/2018
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/02/2018
	Data Release Frequency: Semi-Annually

### **Local Lists of Landfill / Solid Waste Disposal Sites**

#### SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 12/12/2017	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 12/14/2017	Telephone: 518-402-8694
Date Made Active in Reports: 01/31/2018	Last EDR Contact: 03/07/2018
Number of Days to Update: 48	Next Scheduled EDR Contact: 06/25/2018
	Data Release Frequency: No Update Planned

#### SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 12/08/2017	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 01/02/2018	Telephone: 518-402-8705
Date Made Active in Reports: 01/31/2018	Last EDR Contact: 04/02/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Quarterly

#### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 01/30/2018
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/14/2018
	Data Release Frequency: Varies

#### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 04/18/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: No Update Planned

### IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 05/04/2018  
Next Scheduled EDR Contact: 08/13/2018  
Data Release Frequency: Varies

### **Local Lists of Hazardous waste / Contaminated Sites**

#### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/22/2018  
Date Data Arrived at EDR: 03/01/2018  
Date Made Active in Reports: 05/11/2018  
Number of Days to Update: 71

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 02/27/2018  
Next Scheduled EDR Contact: 06/11/2018  
Data Release Frequency: No Update Planned

#### DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 02/12/2018  
Date Data Arrived at EDR: 02/14/2018  
Date Made Active in Reports: 03/27/2018  
Number of Days to Update: 41

Source: Department of Environmental Conservation  
Telephone: 518-402-9622  
Last EDR Contact: 05/16/2018  
Next Scheduled EDR Contact: 08/27/2018  
Data Release Frequency: Quarterly

#### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/22/2018  
Date Data Arrived at EDR: 03/01/2018  
Date Made Active in Reports: 05/11/2018  
Number of Days to Update: 71

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 02/27/2018  
Next Scheduled EDR Contact: 06/11/2018  
Data Release Frequency: Quarterly

### **Local Lists of Registered Storage Tanks**

#### HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 06/02/2006  
Date Made Active in Reports: 07/20/2006  
Number of Days to Update: 48

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 10/23/2006  
Next Scheduled EDR Contact: 01/22/2007  
Data Release Frequency: Varies



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### HIST AST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 06/02/2006  
Date Made Active in Reports: 07/20/2006  
Number of Days to Update: 48

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 10/23/2006  
Next Scheduled EDR Contact: 01/22/2007  
Data Release Frequency: No Update Planned

### Local Land Records

#### LIENS: Spill Liens Information

Lien information from the Oil Spill Fund.

Date of Government Version: 02/13/2018  
Date Data Arrived at EDR: 02/16/2018  
Date Made Active in Reports: 03/27/2018  
Number of Days to Update: 39

Source: Office of the State Comptroller  
Telephone: 518-474-9034  
Last EDR Contact: 05/03/2018  
Next Scheduled EDR Contact: 08/20/2018  
Data Release Frequency: Quarterly

#### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 01/09/2018  
Date Data Arrived at EDR: 02/06/2018  
Date Made Active in Reports: 05/11/2018  
Number of Days to Update: 94

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 04/27/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Semi-Annually

### Records of Emergency Release Reports

#### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 01/19/2018  
Date Data Arrived at EDR: 01/19/2018  
Date Made Active in Reports: 03/23/2018  
Number of Days to Update: 63

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 03/27/2018  
Next Scheduled EDR Contact: 07/09/2018  
Data Release Frequency: Quarterly

#### SPILLS: Spills Information Database

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 02/12/2018  
Date Data Arrived at EDR: 02/14/2018  
Date Made Active in Reports: 03/16/2018  
Number of Days to Update: 30

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 05/16/2018  
Next Scheduled EDR Contact: 08/27/2018  
Data Release Frequency: Varies

#### HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2002  
Date Data Arrived at EDR: 07/08/2005  
Date Made Active in Reports: 07/14/2005  
Number of Days to Update: 6

Source: Department of Environmental Conservation  
Telephone: 518-402-9549  
Last EDR Contact: 07/07/2005  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012  
Date Data Arrived at EDR: 01/03/2013  
Date Made Active in Reports: 02/12/2013  
Number of Days to Update: 40

Source: FirstSearch  
Telephone: N/A  
Last EDR Contact: 01/03/2013  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010  
Date Data Arrived at EDR: 01/03/2013  
Date Made Active in Reports: 03/07/2013  
Number of Days to Update: 63

Source: FirstSearch  
Telephone: N/A  
Last EDR Contact: 01/03/2013  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### **Other Ascertainable Records**

#### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/11/2017  
Date Data Arrived at EDR: 12/26/2017  
Date Made Active in Reports: 02/09/2018  
Number of Days to Update: 45

Source: Environmental Protection Agency  
Telephone: (212) 637-3660  
Last EDR Contact: 03/28/2018  
Next Scheduled EDR Contact: 07/09/2018  
Data Release Frequency: Quarterly

#### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015  
Date Data Arrived at EDR: 07/08/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 02/21/2018  
Next Scheduled EDR Contact: 06/04/2018  
Data Release Frequency: Varies

#### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 04/13/2018  
Next Scheduled EDR Contact: 07/23/2018  
Data Release Frequency: Semi-Annually



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/11/2018
Number of Days to Update: 339	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 05/15/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/27/2018
	Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 01/11/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-566-1917
Date Made Active in Reports: 03/02/2018	Last EDR Contact: 03/27/2018
Number of Days to Update: 42	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/07/2018
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/20/2018
	Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 05/08/2018
Number of Days to Update: 6	Next Scheduled EDR Contact: 08/20/2018
	Data Release Frequency: Varies



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/21/2017	Telephone: 202-260-5521
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 03/23/2018
Number of Days to Update: 198	Next Scheduled EDR Contact: 07/02/2018
	Data Release Frequency: Every 4 Years

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 01/10/2018	Telephone: 202-566-0250
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 02/23/2018
Number of Days to Update: 2	Next Scheduled EDR Contact: 06/04/2018
	Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 04/09/2018
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Annually

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/09/2018	Source: EPA
Date Data Arrived at EDR: 02/06/2018	Telephone: 703-416-0223
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 04/27/2018
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/18/2018
	Data Release Frequency: Annually

### RMP: Risk Management Plans



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/17/2017	Telephone: 202-564-8600
Date Made Active in Reports: 12/08/2017	Last EDR Contact: 04/20/2018
Number of Days to Update: 21	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Varies

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 04/27/2018
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/20/2018
	Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017	Source: EPA
Date Data Arrived at EDR: 06/09/2017	Telephone: 202-566-0500
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 04/13/2018
Number of Days to Update: 126	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Annually

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 04/09/2018
Number of Days to Update: 79	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Quarterly

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016  
Date Data Arrived at EDR: 09/08/2016  
Date Made Active in Reports: 10/21/2016  
Number of Days to Update: 43

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 05/03/2018  
Next Scheduled EDR Contact: 08/20/2018  
Data Release Frequency: Quarterly

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 03/09/2018  
Next Scheduled EDR Contact: 06/18/2018  
Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 03/06/2018  
Next Scheduled EDR Contact: 06/18/2018  
Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017  
Date Data Arrived at EDR: 11/30/2017  
Date Made Active in Reports: 12/15/2017  
Number of Days to Update: 15

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 04/27/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: Varies

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/03/2018  
Date Data Arrived at EDR: 01/04/2018  
Date Made Active in Reports: 04/13/2018  
Number of Days to Update: 99

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 04/05/2018  
Next Scheduled EDR Contact: 07/16/2018  
Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 05/03/2018  
Next Scheduled EDR Contact: 08/13/2018  
Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 01/24/2018  
Date Made Active in Reports: 04/13/2018  
Number of Days to Update: 79

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 04/06/2018  
Next Scheduled EDR Contact: 07/02/2018  
Data Release Frequency: Varies

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 09/28/2017  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 02/23/2018  
Next Scheduled EDR Contact: 06/04/2018  
Data Release Frequency: Biennially



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 04/11/2018
Number of Days to Update: 546	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Semi-Annually

### FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016	Source: Department of Energy
Date Data Arrived at EDR: 12/27/2016	Telephone: 202-586-3559
Date Made Active in Reports: 02/17/2017	Last EDR Contact: 05/07/2018
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/20/2018
	Data Release Frequency: Varies

### UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017	Source: Department of Energy
Date Data Arrived at EDR: 10/11/2017	Telephone: 505-845-0011
Date Made Active in Reports: 11/03/2017	Last EDR Contact: 05/18/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/03/2018
	Data Release Frequency: Varies

### LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/09/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/06/2018	Telephone: 703-603-8787
Date Made Active in Reports: 03/02/2018	Last EDR Contact: 04/27/2018
Number of Days to Update: 24	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Varies

### LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

### US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

### US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 01/25/2018  
Date Data Arrived at EDR: 02/28/2018  
Date Made Active in Reports: 05/11/2018  
Number of Days to Update: 72

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 02/28/2018  
Next Scheduled EDR Contact: 06/11/2018  
Data Release Frequency: Semi-Annually

### US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 03/02/2018  
Next Scheduled EDR Contact: 06/11/2018  
Data Release Frequency: Varies

### US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 03/02/2018  
Next Scheduled EDR Contact: 06/11/2018  
Data Release Frequency: Varies

### ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/20/2017  
Date Data Arrived at EDR: 12/21/2017  
Date Made Active in Reports: 03/23/2018  
Number of Days to Update: 92

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 03/07/2018  
Next Scheduled EDR Contact: 06/25/2018  
Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018	Source: EPA
Date Data Arrived at EDR: 02/23/2018	Telephone: (212) 637-3000
Date Made Active in Reports: 03/23/2018	Last EDR Contact: 02/23/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 06/18/2018
	Data Release Frequency: Quarterly

### DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-564-0527
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 03/02/2018
Number of Days to Update: 84	Next Scheduled EDR Contact: 06/11/2018
	Data Release Frequency: Varies

### ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-564-2280
Date Made Active in Reports: 03/02/2018	Last EDR Contact: 03/07/2018
Number of Days to Update: 42	Next Scheduled EDR Contact: 06/18/2018
	Data Release Frequency: Quarterly

### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016	Source: Department of Defense
Date Data Arrived at EDR: 10/31/2017	Telephone: 703-704-1564
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 04/13/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 07/30/2018
	Data Release Frequency: Varies

### FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/20/2018	Source: EPA
Date Data Arrived at EDR: 02/21/2018	Telephone: 800-385-6164
Date Made Active in Reports: 03/23/2018	Last EDR Contact: 02/21/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 06/04/2018
	Data Release Frequency: Quarterly

### AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 02/07/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/13/2018	Telephone: 518-402-8452
Date Made Active in Reports: 03/27/2018	Last EDR Contact: 04/20/2018
Number of Days to Update: 42	Next Scheduled EDR Contact: 08/06/2018
	Data Release Frequency: Annually



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 09/25/2017

Date Data Arrived at EDR: 09/26/2017

Date Made Active in Reports: 10/12/2017

Number of Days to Update: 16

Source: Department of Environmental Conservation

Telephone: 518-402-8660

Last EDR Contact: 04/02/2018

Next Scheduled EDR Contact: 07/16/2018

Data Release Frequency: Quarterly

### DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 11/22/2017

Date Data Arrived at EDR: 12/14/2017

Date Made Active in Reports: 01/29/2018

Number of Days to Update: 46

Source: Department of Environmental Conservation

Telephone: 518-402-8403

Last EDR Contact: 03/07/2018

Next Scheduled EDR Contact: 06/25/2018

Data Release Frequency: Annually

### E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 02/14/2018

Date Data Arrived at EDR: 03/23/2018

Date Made Active in Reports: 05/14/2018

Number of Days to Update: 52

Source: New York City Department of City Planning

Telephone: 718-595-6658

Last EDR Contact: 03/19/2018

Next Scheduled EDR Contact: 07/02/2018

Data Release Frequency: Semi-Annually

### Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 12/01/2017

Date Data Arrived at EDR: 01/02/2018

Date Made Active in Reports: 01/31/2018

Number of Days to Update: 29

Source: Department of Environmental Conservation

Telephone: 518-402-8660

Last EDR Contact: 04/02/2018

Next Scheduled EDR Contact: 07/16/2018

Data Release Frequency: Quarterly

### Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/09/2017

Date Data Arrived at EDR: 04/12/2017

Date Made Active in Reports: 10/13/2017

Number of Days to Update: 184

Source: Department of Environmental Conservation

Telephone: 518-402-8712

Last EDR Contact: 03/07/2018

Next Scheduled EDR Contact: 06/25/2018

Data Release Frequency: Varies

### HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2003  
Date Data Arrived at EDR: 10/20/2006  
Date Made Active in Reports: 11/30/2006  
Number of Days to Update: 41

Source: Department of Environmental Conservation  
Telephone: 518-402-9564  
Last EDR Contact: 05/26/2009  
Next Scheduled EDR Contact: 08/24/2009  
Data Release Frequency: No Update Planned

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 01/31/2018  
Date Made Active in Reports: 03/09/2018  
Number of Days to Update: 37

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 05/03/2018  
Next Scheduled EDR Contact: 08/13/2018  
Data Release Frequency: Quarterly

### SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 10/25/2017  
Date Data Arrived at EDR: 10/27/2017  
Date Made Active in Reports: 11/28/2017  
Number of Days to Update: 32

Source: Department of Environmental Conservation  
Telephone: 518-402-8233  
Last EDR Contact: 05/18/2018  
Next Scheduled EDR Contact: 08/06/2018  
Data Release Frequency: No Update Planned

### VAPOR REOPENED: Vapor Intrusion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 01/01/2018  
Date Data Arrived at EDR: 02/15/2018  
Date Made Active in Reports: 03/27/2018  
Number of Days to Update: 40

Source: Department of Environmental Conservation  
Telephone: 518-402-9814  
Last EDR Contact: 05/18/2018  
Next Scheduled EDR Contact: 08/27/2018  
Data Release Frequency: Varies

### UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 03/04/2018  
Date Data Arrived at EDR: 03/08/2018  
Date Made Active in Reports: 03/27/2018  
Number of Days to Update: 19

Source: Department of Environmental Conservation  
Telephone: 518-402-8056  
Last EDR Contact: 03/08/2018  
Next Scheduled EDR Contact: 06/18/2018  
Data Release Frequency: Quarterly

## **EDR HIGH RISK HISTORICAL RECORDS**

### ***EDR Exclusive Records***

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

### EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## **EDR RECOVERED GOVERNMENT ARCHIVES**

### ***Exclusive Recovered Govt. Archives***

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/30/2013  
Number of Days to Update: 182

Source: Department of Environmental Conservation  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/10/2014  
Number of Days to Update: 193

Source: Department of Environmental Conservation  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## COUNTY RECORDS

### CORTLAND COUNTY:

#### Cortland County Storage Tank Listing

A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 01/02/2018	Source: Cortland County Health Department
Date Data Arrived at EDR: 03/05/2018	Telephone: 607-753-5035
Date Made Active in Reports: 03/29/2018	Last EDR Contact: 04/30/2018
Number of Days to Update: 24	Next Scheduled EDR Contact: 08/13/2018
	Data Release Frequency: Quarterly

#### Cortland County Storage Tank Listing

A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 01/02/2018	Source: Cortland County Health Department
Date Data Arrived at EDR: 03/05/2018	Telephone: 607-753-5035
Date Made Active in Reports: 03/29/2018	Last EDR Contact: 04/30/2018
Number of Days to Update: 24	Next Scheduled EDR Contact: 08/13/2018
	Data Release Frequency: Quarterly

### NASSAU COUNTY:

#### Registered Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017	Source: Nassau County Health Department
Date Data Arrived at EDR: 01/11/2017	Telephone: 516-571-3314
Date Made Active in Reports: 02/15/2017	Last EDR Contact: 04/30/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/13/2018
	Data Release Frequency: No Update Planned

#### Storage Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011	Source: Nassau County Office of the Fire Marshal
Date Data Arrived at EDR: 02/23/2011	Telephone: 516-572-1000
Date Made Active in Reports: 03/29/2011	Last EDR Contact: 04/30/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/13/2018
	Data Release Frequency: Varies

#### Registered Tank Database in Nassau County

A listing of facilities in Nassau County with storage tanks.

Date of Government Version: 01/09/2017	Source: Nassau County Department of Health
Date Data Arrived at EDR: 01/11/2017	Telephone: 516-227-9691
Date Made Active in Reports: 02/15/2017	Last EDR Contact: 04/30/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/13/2018
	Data Release Frequency: Varies

#### Registered Tank Database

A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017	Source: Nassau County Health Department
Date Data Arrived at EDR: 01/11/2017	Telephone: 516-571-3314
Date Made Active in Reports: 02/15/2017	Last EDR Contact: 04/30/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/13/2018
	Data Release Frequency: No Update Planned



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Storage Tank Database

A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011

Date Data Arrived at EDR: 02/23/2011

Date Made Active in Reports: 03/29/2011

Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal

Telephone: 516-572-1000

Last EDR Contact: 04/30/2018

Next Scheduled EDR Contact: 08/13/2018

Data Release Frequency: Varies

### ROCKLAND COUNTY:

#### Petroleum Bulk Storage Database

A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 02/02/2017

Date Data Arrived at EDR: 03/17/2017

Date Made Active in Reports: 09/22/2017

Number of Days to Update: 189

Source: Rockland County Health Department

Telephone: 914-364-2605

Last EDR Contact: 03/01/2018

Next Scheduled EDR Contact: 06/18/2018

Data Release Frequency: Quarterly

#### Petroleum Bulk Storage Database

A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 02/02/2017

Date Data Arrived at EDR: 03/17/2017

Date Made Active in Reports: 09/22/2017

Number of Days to Update: 189

Source: Rockland County Health Department

Telephone: 914-364-2605

Last EDR Contact: 03/01/2018

Next Scheduled EDR Contact: 06/18/2018

Data Release Frequency: Quarterly

### SUFFOLK COUNTY:

#### Storage Tank Database

A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015

Date Data Arrived at EDR: 03/10/2015

Date Made Active in Reports: 03/23/2015

Number of Days to Update: 13

Source: Suffolk County Department of Health Services

Telephone: 631-854-2521

Last EDR Contact: 04/30/2018

Next Scheduled EDR Contact: 08/13/2018

Data Release Frequency: No Update Planned

#### Storage Tank Database

A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015

Date Data Arrived at EDR: 03/10/2015

Date Made Active in Reports: 03/23/2015

Number of Days to Update: 13

Source: Suffolk County Department of Health Services

Telephone: 631-854-2521

Last EDR Contact: 04/30/2018

Next Scheduled EDR Contact: 08/13/2018

Data Release Frequency: No Update Planned

### WESTCHESTER COUNTY:

#### Listing of Storage Tanks

A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 01/05/2018

Date Data Arrived at EDR: 02/20/2018

Date Made Active in Reports: 03/27/2018

Number of Days to Update: 35

Source: Westchester County Department of Health

Telephone: 914-813-5161

Last EDR Contact: 04/30/2018

Next Scheduled EDR Contact: 08/13/2018

Data Release Frequency: Semi-Annually



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Listing of Storage Tanks

A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 01/05/2018  
Date Data Arrived at EDR: 02/20/2018  
Date Made Active in Reports: 03/27/2018  
Number of Days to Update: 35

Source: Westchester County Department of Health  
Telephone: 914-813-5161  
Last EDR Contact: 04/30/2018  
Next Scheduled EDR Contact: 08/13/2018  
Data Release Frequency: Semi-Annually

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 01/03/2018  
Date Data Arrived at EDR: 02/14/2018  
Date Made Active in Reports: 03/22/2018  
Number of Days to Update: 36

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 05/18/2018  
Next Scheduled EDR Contact: 08/27/2018  
Data Release Frequency: No Update Planned

#### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 04/11/2017  
Date Made Active in Reports: 07/27/2017  
Number of Days to Update: 107

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 04/23/2018  
Next Scheduled EDR Contact: 07/23/2018  
Data Release Frequency: Annually

#### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 07/25/2017  
Date Made Active in Reports: 09/25/2017  
Number of Days to Update: 62

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 04/12/2018  
Next Scheduled EDR Contact: 07/30/2018  
Data Release Frequency: Annually

#### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 02/23/2018  
Date Made Active in Reports: 04/09/2018  
Number of Days to Update: 45

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 02/21/2018  
Next Scheduled EDR Contact: 06/04/2018  
Data Release Frequency: Annually

#### VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 01/12/2018  
Date Data Arrived at EDR: 01/19/2018  
Date Made Active in Reports: 02/13/2018  
Number of Days to Update: 25

Source: Department of Environmental Conservation  
Telephone: 802-241-3443  
Last EDR Contact: 04/16/2018  
Next Scheduled EDR Contact: 07/30/2018  
Data Release Frequency: Annually



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016

Date Data Arrived at EDR: 04/13/2017

Date Made Active in Reports: 07/14/2017

Number of Days to Update: 92

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 03/08/2018

Next Scheduled EDR Contact: 06/25/2018

Data Release Frequency: Annually

### Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

### Electric Power Transmission Line Data

Source: PennWell Corporation

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Day Care Providers

Source: Department of Health

Telephone: 212-676-2444

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands  
Source: Department of Environmental Conservation  
Telephone: 518-402-8961

Current USGS 7.5 Minute Topographic Map  
Source: U.S. Geological Survey

### **STREET AND ADDRESS INFORMATION**

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.



## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

458 LAKELAND AVE  
458 LAKELAND AVE  
SAYVILLE, NY 11782

### **TARGET PROPERTY COORDINATES**

Latitude (North):	40.755452 - 40° 45' 19.63"
Longitude (West):	73.099518 - 73° 5' 58.26"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	660431.4
UTM Y (Meters):	4513136.5
Elevation:	32 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	5940617 PATCHOGUE, NY
Version Date:	2013
Southeast Map:	5940627 SAYVILLE, NY
Version Date:	2013
Southwest Map:	5940595 BAY SHORE EAST, NY
Version Date:	2013
Northwest Map:	5940555 CENTRAL ISLIP, NY
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

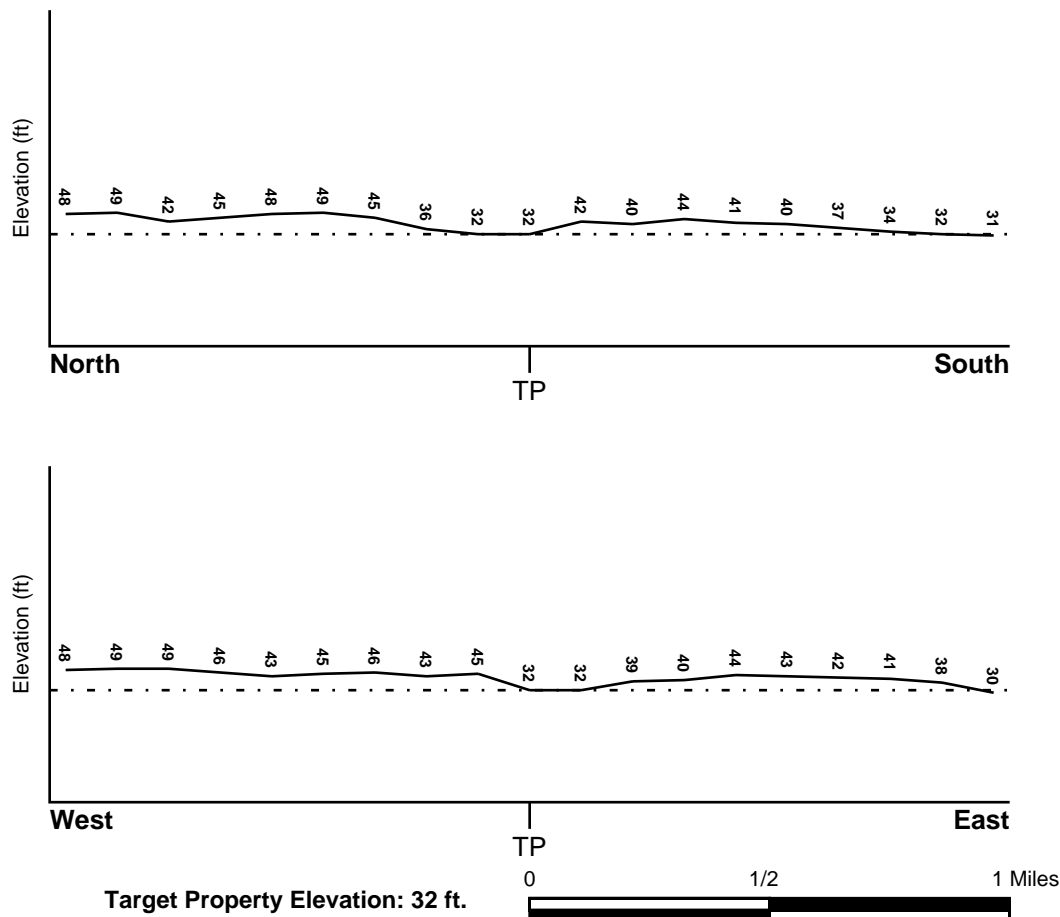
### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
36103C0688G	FEMA Q3 Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
36103C0689H	FEMA FIRM Flood data
36103C0901G	FEMA Q3 Flood data
36103C0901H	FEMA FIRM Flood data
36103C0902H	FEMA FIRM Flood data

### NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
PATCHOGUE	YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### ***Site-Specific Hydrogeological Data\*:***

Search Radius:	1.25 miles
Status:	Not found

### AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		



## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

Era:	Cenozoic
System:	Quaternary
Series:	Pleistocene
Code:	Qp (decoded above as Era, System & Series)

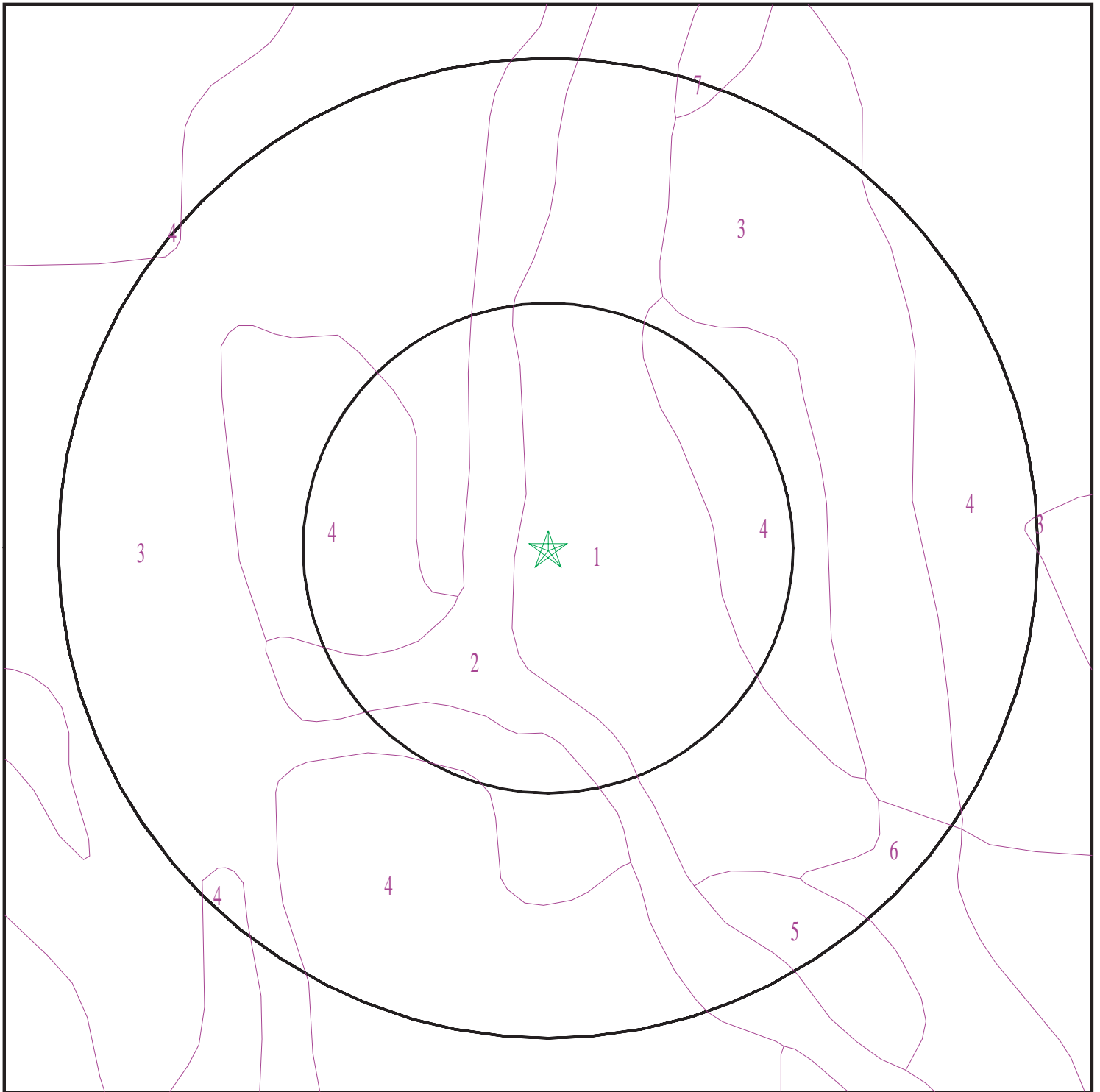
#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).



# SSURGO SOIL MAP - 5303084.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: 458 Lakeland Ave  
ADDRESS: 458 Lakeland Ave  
Sayville NY 11782  
LAT/LONG: 40.755452 / 73.099518

CLIENT: P.W. Grosser Consulting  
CONTACT: Lisa Schreiner  
INQUIRY #: 5303084.2s  
DATE: May 21, 2018 3:29 pm



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

#### Soil Map ID: 1

Soil Component Name: Plymouth

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 5.5 Min: 3.6
2	3 inches	27 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 5.5 Min: 3.6
3	27 inches	59 inches	gravelly coarse sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 5.5 Min: 3.6



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 2

Soil Component Name: Plymouth

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 5.5 Min: 3.6
2	3 inches	27 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 5.5 Min: 3.6
3	27 inches	59 inches	gravelly coarse sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 5.5 Min: 3.6



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 3

Soil Component Name: Haven

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	11 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	18 inches	27 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	27 inches	59 inches	stratified gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 6 Min: 4.5



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 4

Soil Component Name: Riverhead

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 4.5
2	11 inches	27 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 4.5
3	27 inches	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 4.5
4	35 inches	64 inches	stratified coarse sand to gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 5.5 Min: 4.5



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 5

Soil Component Name: Deerfield

Soil Surface Texture: highly decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	highly decomposed plant material	A-8	Not reported	Max: 42 Min: 1.4	Max: 5.5 Min: 4.5
2	3 inches	9 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 4.5
3	9 inches	27 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 4.5
4	27 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 4.5



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

---

### Soil Map ID: 6

Soil Component Name: Cut and fill land

Soil Surface Texture: highly decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 153 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

---

### Soil Map ID: 7

Soil Component Name: Cut and fill land

Soil Surface Texture: highly decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 153 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000831396	1/2 - 1 Mile SW
2	USGS40000831673	1/2 - 1 Mile West
3	USGS40000831435	1/2 - 1 Mile SE
4	USGS40000831423	1/2 - 1 Mile SW
5	USGS40000831234	1/2 - 1 Mile SSE
A6	USGS40000832066	1/2 - 1 Mile NNE
A7	USGS40000832067	1/2 - 1 Mile NNE
8	USGS40000831514	1/2 - 1 Mile East
13	USGS40000831167	1/2 - 1 Mile SE
14	USGS40000832015	1/2 - 1 Mile NE

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

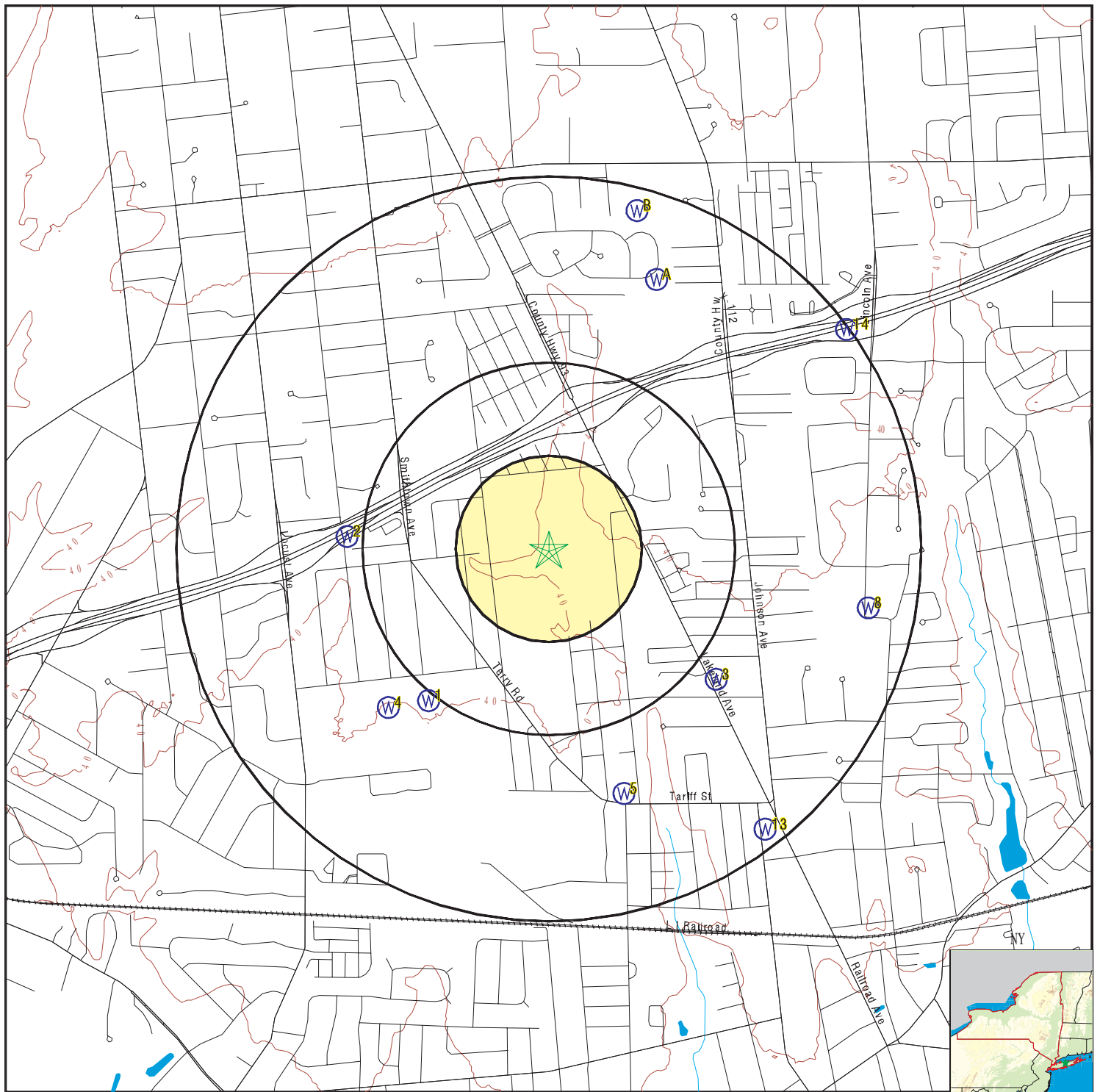
Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
B9	NYWS006163	1/2 - 1 Mile NNE
B10	NYWS006164	1/2 - 1 Mile NNE
B11	NYWS006161	1/2 - 1 Mile NNE
B12	NYWS006162	1/2 - 1 Mile NNE



# PHYSICAL SETTING SOURCE MAP - 5303084.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: 458 Lakeland Ave  
 ADDRESS: 458 Lakeland Ave  
 Sayville NY 11782  
 LAT/LONG: 40.755452 / 73.099518

CLIENT: P.W. Grosser Consulting  
 CONTACT: Lisa Schreiner  
 INQUIRY #: 5303084.2s  
 DATE: May 21, 2018 3:29 pm



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**1**  
**SW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS USGS40000831396**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404458073062201		
Monloc name:	S 56029. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7495427
Longitude:	-73.1056674	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	42
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**2**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS USGS40000831673**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404521073063701		
Monloc name:	S 26059. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7559316
Longitude:	-73.1098341	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	43.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	75
Construction date:	Not Reported	Wellholedepth:	Not Reported
Welldepth units:	ft		
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**3**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS USGS40000831435**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404501073052901		
Monloc name:	S 80. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.750376
Longitude:	-73.0909447	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	35.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	121
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**4**  
**SW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS USGS40000831423**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404500073062101		
Monloc name:	S 56030. 1		
Monloc type:	Well		
Monloc desc:	LAT/LONG UPDATES FROM SIM 3066		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7492778
Longitude:	-73.1077222	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from Digital Map		
Horiz coord refsys:	NAD83	Vert measure val:	44
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported  
 Construction date: 19751031  
 Welldepth units: ft  
 Wellholeddepth units: Not Reported  
 Welldepth: 36  
 Wellholeddepth: Not Reported

Ground-water levels, Number of Measurements: 11

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-03-15		19.09	2003-03-17		19.46
2002-03-27		16.64	2001-03-21		18.72
2000-03-22		17.85	1999-03-23		19.25
1998-03-18		20.52	1997-03-17		19.75
1996-03-18		18.55	1995-03-16		17.61
1994-05-03		19.94			

**5**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS USGS40000831234**

Org. Identifier: USGS-NY  
 Formal name: USGS New York Water Science Center  
 Monloc Identifier: USGS-404445073054600  
 Monloc name: S 30827. 1  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 02030202  
 Drainagearea Units: Not Reported  
 Contrib drainagearea units: Not Reported  
 Longitude: -73.0956671  
 Horiz Acc measure: 1  
 Horiz Collection method: Interpolated from map  
 Horiz coord refs: NAD83  
 Vert measure units: feet  
 Vert accmeasure units: feet  
 Vertcollection method: Level or other surveying method  
 Vert coord refs: NGVD29  
 Aquifername: Northern Atlantic Coastal Plain aquifer system  
 Formation type: Glacial Aquifer, Upper  
 Aquifer type: Not Reported  
 Construction date: Not Reported  
 Welldepth units: ft  
 Wellholeddepth units: Not Reported  
 Drainagearea value: Not Reported  
 Contrib drainagearea: Not Reported  
 Latitude: 40.7459316  
 Sourcemap scale: 24000  
 Horiz Acc measure units: seconds  
 Vert measure val: 35.0  
 Vertacc measure val: 0.1  
 Countrycode: US  
 Welldepth: 60  
 Wellholeddepth: Not Reported

Ground-water levels, Number of Measurements: 0

**A6**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS USGS40000832066**

Org. Identifier: USGS-NY  
 Formal name: USGS New York Water Science Center  
 Monloc Identifier: USGS-404557073054001  
 Monloc name: S 74484. 1  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 02030202  
 Drainagearea Units: Not Reported  
 Contrib drainagearea units: Not Reported  
 Longitude: -73.094  
 Drainagearea value: Not Reported  
 Contrib drainagearea: Not Reported  
 Latitude: 40.7659316  
 Sourcemap scale: 24000



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	20
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**A7**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**

**USGS40000832067**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404557073054002		
Monloc name:	S 74485. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7659316
Longitude:	-73.094	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	30
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**8**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**

**USGS40000831514**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404511073050100		
Monloc name:	S 34904. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7531538
Longitude:	-73.0831666	Sourcemap scale:	24000



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	35.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	63
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**B9**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**NY WELLS NYWS006163**

Well Id:	NY5110526	System name:	SUFFOLK COUNTY WATER AUTHORITY
System Id:	218	Well name:	CHURCH STREET BOH. WELL # 1 S-52126
Type:	Well	Active?:	Active
County:	SUFFOLK COUNTY	Latitude:	404607 000
Longitude:	730542 000	Slec_type_:	AC
Agency:	RANDAZZO, KAREN		
Address:	PO BOX 18043		
City/State/Zip:	HAUPPAUGUE NY 11788		
Phone:	631-563-0258		

**B10**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**NY WELLS NYWS006164**

Well Id:	NY5110526	System name:	SUFFOLK COUNTY WATER AUTHORITY
System Id:	219	Well name:	CHURCH STREET BOH. WELL # 2 S-57871
Type:	Well	Active?:	Active
County:	SUFFOLK COUNTY	Latitude:	404607 000
Longitude:	730542 000	Slec_type_:	AC
Agency:	RANDAZZO, KAREN		
Address:	PO BOX 18043		
City/State/Zip:	HAUPPAUGUE NY 11788		
Phone:	631-563-0258		

**B11**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**NY WELLS NYWS006161**



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Id:	NY5110526	System name:	SUFFOLK COUNTY WATER AUTHORITY
System Id:	218	Well name:	CHURCH STREET BOH. WELL # 1 S-52126
Type:	Well	Active?:	Active
County:	SUFFOLK COUNTY	Latitude:	404607 000
Longitude:	730542 000	Slec_type_:	AC
Agency:	MURRAY, ROBERT L.		
Address:	180 Fifth Avenue		
City/State/Zip:	BAYSHORE NY 11706		
Phone:	631-665-0662		

**B12**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**NY WELLS      NYWS006162**

Well Id:	NY5110526	System name:	SUFFOLK COUNTY WATER AUTHORITY
System Id:	219	Well name:	CHURCH STREET BOH. WELL # 2 S-57871
Type:	Well	Active?:	Active
County:	SUFFOLK COUNTY	Latitude:	404607 000
Longitude:	730542 000	Slec_type_:	AC
Agency:	MURRAY, ROBERT L.		
Address:	180 Fifth Avenue		
City/State/Zip:	BAYSHORE NY 11706		
Phone:	631-665-0662		

**13**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000831167**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404440073052001		
Monloc name:	S 3517. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7445428
Longitude:	-73.0884446	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	51.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	20
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 237

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1958-10-29		13.47	1958-09-29		13.16
1958-08-28		13.29	1958-07-29		13.50
1958-06-26		14.00	1958-05-27		14.65
1958-04-30		14.57	1958-03-27		14.31
1958-02-24		13.64	1958-01-28		13.81
1957-12-18		12.52	1957-11-25		12.16
1957-10-24		12.02	1957-09-24		12.12
1957-09-11		12.09	1957-07-05		12.65
1956-12-17		12.75	1956-09-28		12.76
1956-06-22		13.53	1956-05-29		13.70
1956-04-25		14.28	1956-03-27		14.28
1956-02-27		14.04	1956-01-25		13.33
1955-12-27		13.81	1955-11-23		14.56
1955-11-01		14.32	1955-09-30		12.65
1955-08-24		13.12	1955-07-26		12.48
1955-06-24		12.85	1955-05-25		13.17
1955-04-27		13.54	1955-03-23		13.46
1955-02-21		13.33	1955-01-25		13.70
1954-12-23		13.75	1954-11-22		13.16
1954-10-27		13.06	1954-09-29		13.44
1954-08-25		12.49	1954-07-28		12.62
1954-07-01		13.06	1954-05-28		13.56
1954-04-28		13.11	1954-03-26		12.77
1954-02-26		12.55	1954-01-28		12.68
1953-12-21		12.99	1953-11-30		12.32
1953-11-02		12.22	1953-10-04		12.32
1953-09-11		12.56	1953-08-25		12.79
1953-08-04		13.00	1953-06-23		13.65
1953-05-25		14.26	1953-04-29		14.57
1953-03-30		14.29	1953-02-25		12.92
1953-02-02		12.69	1952-12-29		12.16
1952-12-03		11.98	1952-11-07		12.11
1952-09-23		12.48	1952-08-26		12.82
1952-07-22		13.07	1952-06-23		13.79
1952-05-26		13.69	1952-04-22		13.69
1952-03-25		13.95	1952-02-26		13.71
1952-01-28		13.38	1951-12-17		12.50
1951-11-27		12.47	1951-10-31		11.82
1951-09-25		11.93	1951-08-28		12.16
1951-07-26		12.39	1951-06-28		12.67
1951-06-01		13.18	1951-04-24		13.38
1951-03-27		13.29	1951-02-21		12.54
1951-01-25		12.19	1950-12-29		12.25
1950-11-27		11.81	1950-10-24		12.15
1950-09-27		12.00	1950-08-31		12.23
1950-07-24		12.45	1950-06-28		12.65
1950-05-24		12.47	1950-04-26		12.68
1950-03-29		12.54	1950-03-01		12.62
1950-02-02		12.32	1949-12-30		12.50
1949-12-04		12.22	1949-10-25		12.20
1949-10-06		12.31	1949-08-25		12.37
1949-07-27		12.62	1949-07-07		12.86
1949-05-26		13.52	1949-04-27		13.80
1949-03-28		14.02	1949-02-23		13.97
1949-01-25		13.91	1948-12-27		12.67



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1948-12-01		12.54	1948-10-26		12.58
1948-10-01		13.73	1948-08-27		13.29
1948-08-03		13.67	1948-06-30		13.94
1948-06-01		13.86	1948-05-04		13.81
1948-04-01		14.00	1948-02-27		13.75
1948-02-05		12.93	1947-12-23		12.61
1947-11-25		12.70	1947-10-30		11.95
1947-10-03		12.04	1947-09-04		12.31
1947-08-04		12.54	1947-07-10		12.58
1947-06-06		12.91	1947-05-07		13.03
1947-04-04		12.38	1947-03-04		12.25
1947-02-10		12.23	1947-01-02		12.04
1946-12-02		12.20	1946-11-01		12.45
1946-09-27		12.86	1946-09-04		13.25
1946-07-31		12.96	1946-07-05		13.42
1946-06-13		13.88	1946-05-08		12.90
1946-04-09		13.11	1946-03-06		13.20
1946-02-13		13.19	1946-01-03		12.62
1945-11-30		12.04	1945-10-30		11.92
1945-10-05		12.07	1945-09-06		12.31
1945-08-01		12.63	1945-06-27		12.95
1945-05-30		13.16	1945-05-03		12.89
1945-03-27		13.15	1945-02-28		13.24
1944-12-28		13.08	1944-11-30		12.30
1944-11-01		11.93	1944-09-29		12.18
1944-08-30		12.09	1944-07-28		12.47
1944-06-29		12.94	1944-06-01		13.46
1944-04-29		13.60	1944-03-31		13.22
1944-03-01		12.61	1944-01-31		12.73
1943-12-30		12.13	1943-11-29		12.18
1943-10-28		12.12	1943-09-24		12.21
1943-09-02		12.29	1943-08-02		12.64
1943-06-28		12.98	1943-05-29		13.05
1943-04-30		13.16	1943-03-31		13.53
1943-02-25		13.30	1943-01-30		13.11
1942-12-31		12.80	1942-11-30		12.49
1942-11-02		12.60	1942-09-28		12.95
1942-09-18		13.11	1942-09-11		13.24
1942-09-04		13.38	1942-08-28		13.55
1942-08-21		13.52	1942-08-14		12.95
1942-08-07		12.60	1942-07-31		12.64
1942-07-24		12.68	1942-07-17		12.68
1942-07-10		12.70	1942-07-06		12.79
1942-06-26		12.67	1942-06-19		12.70
1942-06-12		12.81	1942-06-05		12.68
1942-05-29		12.75	1942-05-22		12.84
1942-05-15		12.90	1942-05-08		12.98
1942-04-30		13.04	1942-04-24		13.11
1942-04-17		13.23	1942-04-10		13.37
1909-12-04		11.60	1909-11-19		11.61
1909-10-08		11.83	1909-08-12		12.27
1909-07-10		12.65	1909-06-04		13.26
1909-04-17		12.95	1909-03-22		12.77
1909-02-23		11.82	1909-01-18		11.68
1908-11-18		11.86	1908-10-13		12.02



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1908-09-16		12.21	1908-08-11		12.54
1908-08-10		12.55	1908-07-03		13.05
1908-06-06		13.32	1908-04-07		13.71
1908-03-02		13.86	1908-02-04		13.66
1908-01-02		13.16	1907-12-04		12.59
1907-11-01		12.08	1907-09-09		12.40
1907-07-31		12.94	1907-06-07		13.53
1907-05-29		13.51	1907-04-26		13.63
1907-04-02		13.51			

**14  
NE  
1/2 - 1 Mile  
Higher**

**FED USGS USGS40000832015**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404550073050501		
Monloc name:	S 3739. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.7639871
Longitude:	-73.0842775	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	30.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	30
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 115

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1952-12-29		27.83	1952-12-03		28.08
1952-11-04		28.46	1952-09-23		29.14
1952-08-26		29.59	1952-07-22		30.15
1952-06-23		30.61	1952-05-26		30.43
1952-04-22		30.18	1952-03-25		29.87
1952-02-26		29.51	1952-01-24		28.57
1951-12-19		27.44	1951-11-27		27.42
1951-10-31		27.31	1951-10-09		27.50
1951-09-25		27.00	1951-08-28		27.44
1951-07-26		27.99	1951-06-20		28.13
1951-06-01		28.18	1951-04-24		28.10
1951-03-27		27.50	1951-02-21		26.45



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1951-01-25		26.40	1950-12-29		26.28
1950-11-27		26.49	1950-10-24		26.71
1950-09-27		26.63	1950-08-31		27.00
1950-07-24		27.31	1950-06-28		28.08
1950-04-26		27.44	1950-03-29		27.29
1950-03-01		26.97	1950-02-02		26.36
1949-12-30		26.65	1949-12-04		26.95
1949-10-25		27.44	1949-10-06		27.74
1949-08-25		28.26	1949-07-27		28.77
1949-07-07		29.13	1949-05-26		29.75
1949-04-27		29.97	1949-03-28		30.04
1949-02-23		29.60	1949-01-25		29.27
1948-12-27		27.62	1948-12-01		27.95
1948-10-26		28.40	1948-10-01		28.82
1948-08-27		29.49	1948-08-03		29.86
1948-06-30		29.89	1948-06-01		29.52
1948-05-04		29.39	1948-04-01		29.06
1948-02-27		27.78	1948-02-05		27.13
1947-12-23		26.97	1947-11-25		26.70
1947-10-30		26.41	1947-10-03		26.69
1947-09-04		27.03	1947-08-04		27.35
1947-07-10		27.55	1947-06-06		27.75
1947-05-07		27.66	1947-04-04		26.59
1947-03-04		26.52	1947-02-10		26.56
1947-01-02		26.88	1946-12-02		27.28
1946-11-01		27.75	1946-09-27		28.24
1946-09-04		28.53	1946-07-31		28.43
1946-07-05		28.82	1946-06-13		28.77
1946-05-08		27.80	1946-04-09		27.80
1946-03-06		27.71	1946-02-14		27.53
1946-01-03		26.64	1945-11-30		26.42
1945-10-30		26.72	1945-10-05		27.05
1945-09-06		27.50	1945-08-01		27.96
1945-06-27		28.37	1945-05-30		28.29
1945-05-03		27.96	1945-03-27		28.06
1945-02-28		27.80	1945-01-31		27.78
1944-12-28		27.59	1944-11-30		26.61
1944-11-01		26.66	1944-09-29		27.10
1944-08-30		27.41	1944-07-28		27.99
1944-06-29		28.49	1944-06-01		28.89
1944-04-29		28.41	1944-03-31		27.80
1944-03-01		27.25	1944-01-31		27.35
1943-12-30		26.48	1943-11-29		26.75
1943-10-28		26.49	1943-09-24		27.47
1943-09-02		27.70	1943-08-02		28.26
1943-07-20		28.42			



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

State Database: NY Radon

#### Radon Test Results

County	Town	Num Tests	Avg Result	Geo Mean	Max Result
SUFFOLK	BABYLON	49	1.07	0.76	5.5
SUFFOLK	BROOKHAVEN	117	1.61	1.22	7.5
SUFFOLK	E. HAMPTON	19	1.55	1.16	4.7
SUFFOLK	HUNTINGTON	146	2.13	1.47	22.2
SUFFOLK	ISLIP	61	1.19	0.74	10.4
SUFFOLK	NORTHPORT	4	1.43	1.12	2.5
SUFFOLK	RIVERHEAD	9	2.18	1.26	8.9
SUFFOLK	SHELTER ISLAND	1	1.1	1.1	1.1
SUFFOLK	SMITHTOWN	60	3.02	1.48	42.6
SUFFOLK	SOUTHAMPTON	24	0.99	0.8	2.8
SUFFOLK	SOUTHOLD	7	2.47	1.58	8.6

Federal EPA Radon Zone for SUFFOLK County: 3

Note: Zone 1 indoor average level > 4 pCi/L.  
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SUFFOLK COUNTY, NY

Number of sites tested: 183

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	100%	0%	0%
Basement	1.010 pCi/L	98%	2%	0%



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## **TOPOGRAPHIC INFORMATION**

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **HYDROLOGIC INFORMATION**

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Freshwater Wetlands

Source: Department of Environmental Conservation

Telephone: 518-402-8961

## **HYDROGEOLOGIC INFORMATION**

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## **GEOLOGIC INFORMATION**

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### New York Public Water Wells

Source: New York Department of Health

Telephone: 518-458-6731

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Database

Department of Environmental Conservation

Telephone: 518-402-8072

These files contain records, in the database, of wells that have been drilled.

### RADON

#### State Database: NY Radon

Source: Department of Health

Telephone: 518-402-7556

Radon Test Results

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey



## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.



## APPENDIX H

### TIER 1 VAPOR ENCROACHMENT SCREENING



**458 Lakeland Ave**

458 Lakeland Ave  
Sayville, NY 11782

Inquiry Number: 5303084.2s  
June 12, 2018

## EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet



## TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Primary Map .....	2
Secondary Map .....	3
Map Findings .....	4
Record Sources and Currency .....	GR-1

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

### Disclaimer - Copyright and Trademark Notice

The EDR Vapor Encroachment Worksheet enables EDR's customers to make certain online modifications that effects maps, text and calculations contained in this Report. As a result, maps, text and calculations contained in this Report may have been so modified. EDR has not taken any action to verify any such modifications, and this report and the findings set forth herein must be read in light of this fact. Environmental Data Resources shall not be responsible for any customer's decision to include or not include in any final report any records determined to be within the relevant minimum search distances.

This report contains information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.**

Purchaser accepts this report "AS IS". Any analyses, estimates, ratings, or risk codes provided in this report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can produce information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2018 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



## EXECUTIVE SUMMARY

A search of available environmental records was conducted by EDR. The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

<b>STANDARD ENVIRONMENTAL RECORDS</b>	<b>Default Area of Concern (Miles)*</b>	<b>property</b>	<b>1/10</b>	<b>&gt; 1/10</b>
Federal NPL site list	1.0	0	0	0
Federal Delisted NPL site list	1.0	0	0	0
Federal CERCLIS list	0.5	0	0	0
Federal CERCLIS NFRAP site list	0.5	0	0	0
Federal RCRA CORRACTS facilities list	1.0	0	0	0
Federal RCRA non-CORRACTS TSD facilities list	0.5	0	0	0
Federal RCRA generators list	0.25	0	1	0
Federal institutional controls / engineering controls registries	0.5	0	0	0
Federal ERNS list	property	0	-	-
State- and tribal - equivalent NPL	not searched	-	-	-
State- and tribal - equivalent CERCLIS	1.0	0	0	0
State and tribal landfill and/or solid waste disposal site lists	0.5	0	0	0
State and tribal leaking storage tank lists	0.5	0	1	0
State and tribal registered storage tank lists	0.5	0	2	0
State and tribal institutional control / engineering control registries	0.5	0	0	0
State and tribal voluntary cleanup sites	0.5	0	0	0
State and tribal Brownfields sites	0.5	0	0	0

### ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists	0.5	0	0	0
Local Lists of Landfill / Solid Waste Disposal Sites	0.5	0	0	0
Local Lists of Hazardous waste / Contaminated Sites	1.0	0	0	0
Local Lists of Registered Storage Tanks	0.25	0	0	0
Local Land Records	0.25	0	0	0
Records of Emergency Release Reports	0.125	1	1	0
Other Ascertainable Records	1.0	0	1	0

### EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records	1.0	0	1	0
Exclusive Recovered Govt. Archives	property	0	-	-



## EXECUTIVE SUMMARY

### EDR RECOVERED GOVERNMENT ARCHIVES

EDR Exclusive Records	1.0	0	1	0
Exclusive Recovered Govt. Archives	property	0	-	-

\*The Default Area of Concern may be adjusted by the environmental professional using experience and professional judgement. Each category may include several databases, and each database may have a different distance. A list of individual databases is provided at the back of this report.



# EXECUTIVE SUMMARY

## TARGET PROPERTY INFORMATION

### ADDRESS

458 LAKELAND AVE  
458 LAKELAND AVE  
SAYVILLE, NY 11782

### COORDINATES

Latitude (North): 40.755452 - 40° 45' 19.624329"  
Longitude (West): 73.099518 - 73° 5' 58.26416"  
Elevation: 32 ft. above sea level

## TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records.

### Site

ISLAND HILLS GOLF CLUB  
458 LAKELAND AVENUE  
SAYVILLE, NY

### Database(s)

NY Spills  
Date Closed: 2006-03-21  
Site ID: 357155  
Spill Number: 0511071



## EXECUTIVE SUMMARY

### SEARCH RESULTS

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
ISLAND HILLS GOLF CLUB UST: UST AST: AST	CNTY RD 93 LAKELAND AVE	<1/10 NNE	▲ 2	9
CUMBERLAND FARMS # 70209 NY Spills: SPILLS LTANKS: LTANKS	4909 SUNRISE HWY	<1/10 NNW	▲ D3	9
BP PRODUCTS NORTH AMERICA INC - BP 66392 RCRA-SQG: RCRA-SQG UST: UST MANIFEST: NY MANIFEST	4909 SUNRISE HWY	<1/10 NNW	▲ D5	26

### ADDITIONAL ENVIRONMENTAL RECORDS

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
ISLAND HILLS GOLF CLUB NY Spills: SPILLS	458 LAKELAND AVENUE	Property	▲ 1	8
CUMBERLAND FARMS # 70209 NY Spills: SPILLS LTANKS: LTANKS	4909 SUNRISE HWY	<1/10 NNW	▲ D3	9
BP PRODUCTS NORTH AMERICA INC - BP 66392 RCRA-SQG: RCRA-SQG UST: UST MANIFEST: NY MANIFEST	4909 SUNRISE HWY	<1/10 NNW	▲ D5	26

### EDR HIGH RISK HISTORICAL RECORDS

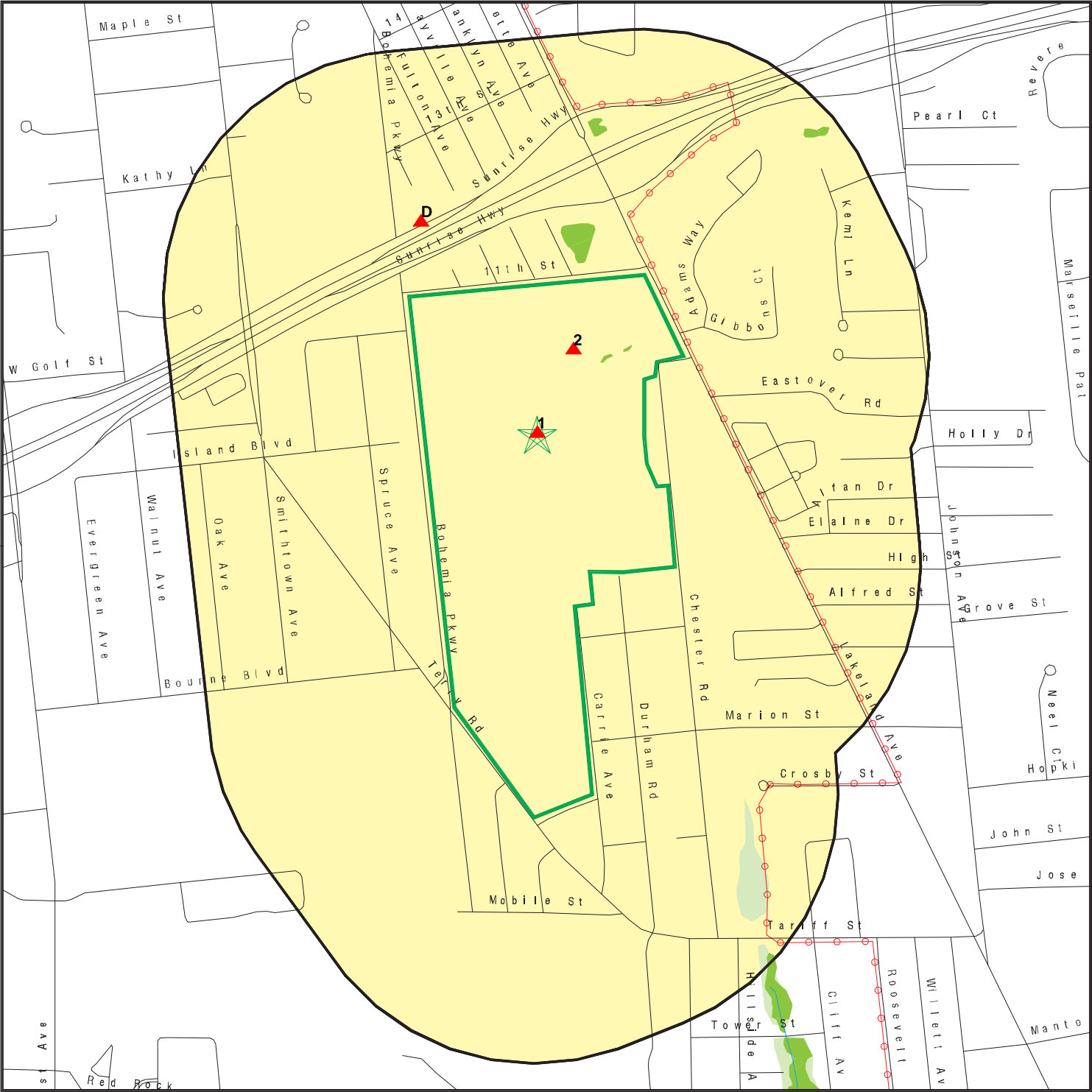
<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
ED MIR SERVICE STATION EDR Hist Auto: EDR Hist Auto	4909 SUNRISE HIGHWAY	<1/10 NNW	▲ D4	25

### EDR RECOVERED GOVERNMENT ARCHIVES

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
Not Reported				



PRIMARY MAP - 5303084.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Power transmission lines
- National Wetland Inventory
- State Wetlands

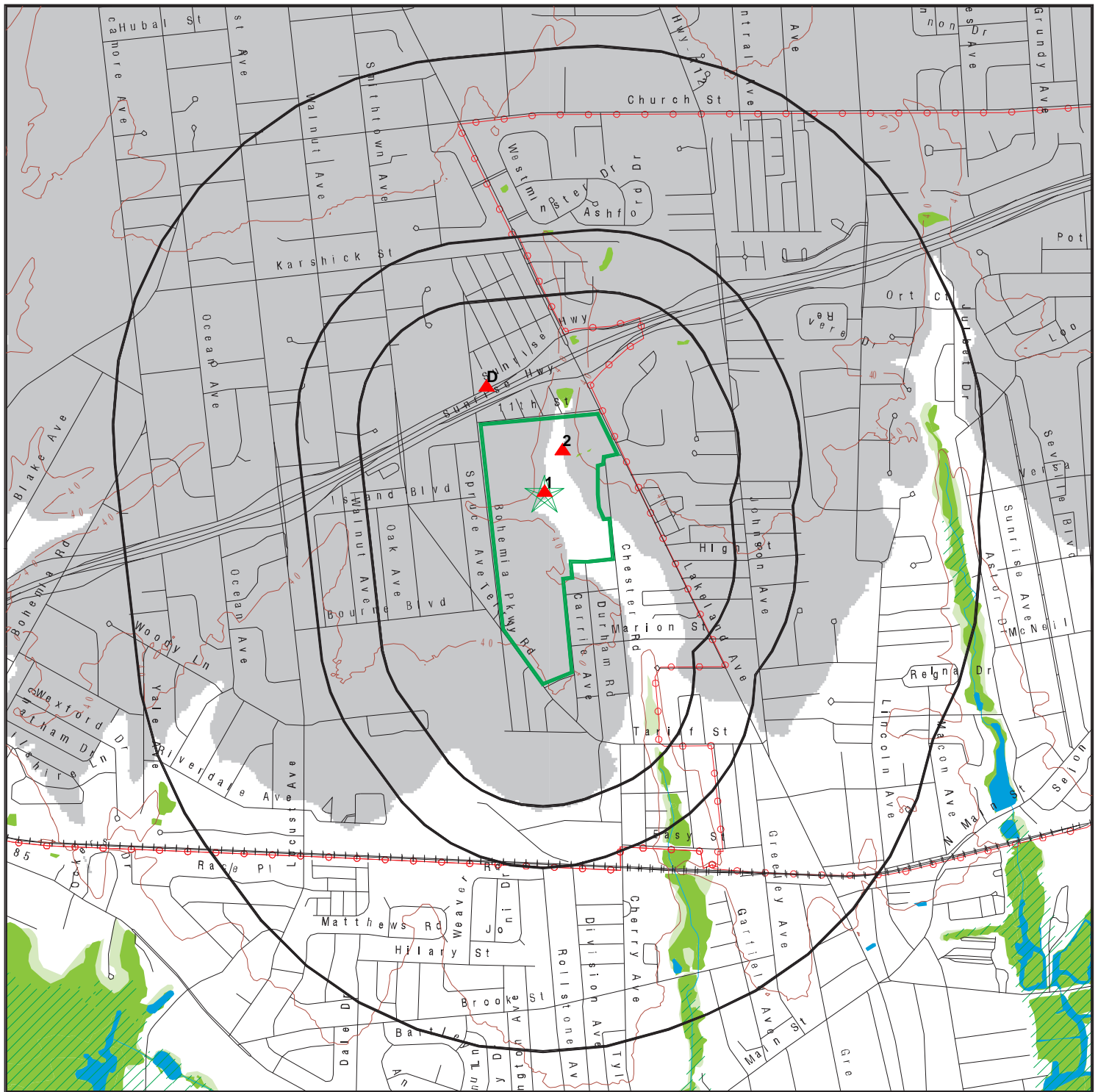
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 458 Lakeland Ave  
ADDRESS: 458 Lakeland Ave  
Sayville NY 11782  
LAT/LONG: 40.755452 / 73.099518

CLIENT: P.W. Grosser Consulting  
CONTACT: Lisa Schreiner  
INQUIRY #: 5303084.2s  
DATE: May 21, 2018 3:29 pm



# SECONDARY MAP - 5303084.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 458 Lakeland Ave  
ADDRESS: 458 Lakeland Ave  
Sayville NY 11782  
LAT/LONG: 40.755452 / 73.099518

CLIENT: P.W. Grosser Consulting  
CONTACT: Lisa Schreiner  
INQUIRY #: 5303084.2S  
DATE: May 21, 2018 3:28 pm



# MAP FINDINGS

## LEGEND

FACILITY NAME FACILITY ADDRESS, CITY, ST, ZIP		EDR SITE ID NUMBER
◆ MAP ID#	Direction Distance Range (Distance feet / miles) Relative Elevation Feet Above Sea Level	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.
<b>Worksheet:</b>  <b>Comments:</b> Comments may be added on the online Vapor Encroachment Worksheet.		

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

ISLAND HILLS GOLF CLUB 458 LAKELAND AVENUE, SAYVILLE, NY,		S107521425
▲ 1	Target Property 32 ft. Above Sea Level	Records of Emergency Release Reports

## Worksheet:

**Impact on Target Property:** VEC does not exist

**Comments:** There was no actual spill reported as a result of the tank tightness failure. A repair to the tank equipment and retesting of the tank resulted in a passed test.

## Conditions:

Not Applicable: YES

## SPILLS: Records of Emergency Release Reports

Facility ID:	0511071
Facility Type:	ER
Spill Number:	0511071
DER Facility ID:	307187
Site ID:	357155
DEC Region:	1
Closed Date:	2006-03-21
Spill Cause:	Other
Spill Class:	B3
SWIS:	5228
Spill Date:	2005-12-21
Investigator:	HMCIRRIT
Referred To:	Not Reported
Reported to Dept:	2005-12-21
CID:	408
Water Affected:	Not Reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Tank Tester
Cleanup Ceased:	Not Reported



# MAP FINDINGS

## ISLAND HILLS GOLF CLUB, 458 LAKELAND AVENUE, SAYVILLE, NY (Continued)

Cleanup Meets Std: False  
Last Inspection: Not Reported  
Recommended Penalty: False  
UST Trust: False  
Remediation Phase: 0  
Date Entered In Computer: 2005-12-21  
Spill Record Last Update: 2014-09-22  
Spiller Name: JOHN GENOVESI  
Spiller Company: ISLAND HILLS GOLF CLUB  
Spiller Address: 458 LAKELAND AVE  
Spiller Company: 001  
Contact Name: JOHN  
DEC Memo: "12/21/05 15:25 LEFT MESSAGE FOR STEVE-G&M DEGE, LINE TEST, BAD CHECK VALVE, DOES NOT BELIEVE THERE IS A SPILL, PLANS TO RETEST LINE  
REPLACED CHECK VALVE, ACTUALLY FOUND SYSTEM TO HAVE 2 DO THEY REMOVED THE ONE AT THE TANK TOP"  
Remarks: "SUFFOLK CTY #05-0623. 99% SURE THAT THE PRODUCT IS GOING BACK INTO THE TANK."

### All Materials:

Site ID: 357155  
Operable Unit ID: 1114434  
Operable Unit: 01  
Material ID: 2104507  
Material Code: 0009  
Material Name: gasoline  
Case No.: Not Reported  
Material FA: Petroleum  
Quantity: Not Reported  
Units: G  
Recovered: .00  
Oxygenate: Not Reported

ISLAND HILLS GOLF CLUB CNTY RD 93 LAKELAND AVE, SAYVILLE, NY, 11782			U003843439
▲ 2	NNE <1/10	(0 ft. / 0 mi.)	State and tribal registered storage tank lists
	Equal Elevation	32 ft. Above Sea Level	

### Worksheet:

**Impact on Target Property:** VEC does not exist

**Comments:** There is no indication of a spill from the on-site tanks.

### Conditions:

Petroleum Hydrocarbon Chemicals of Concern: YES

CUMBERLAND FARMS # 70209 4909 SUNRISE HWY, BOHEMIA, NY, 11716	S104652210
--	------------



# MAP FINDINGS

▲ D3	NNW <1/10	(520 ft. / 0.098 mi.)	State and tribal leaking storage tank lists Records of Emergency Release Reports
	19 ft. Higher Elevation	51 ft. Above Sea Level	

## Worksheet:

**Impact on Target Property:** VEC does not exist

**Comments:** A review of the spills at the site do not exhibit evidence of off-site migration of contamination.

## Conditions:

Petroleum Hydrocarbon Chemicals of Concern: YES

## Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

Hydrogeologically: YES

## LTANKS: State and tribal leaking storage tank lists

Facility ID: 1202591  
 Site ID: 465364  
 Closed Date: 2012-10-19  
 Spill Number: 1202591  
 Spill Date: 2012-06-15  
 Spill Cause: Tank Test Failure  
 Spill Source: Gasoline Station or other PBS Facility  
 Spill Class: B3  
 Cleanup Ceased: Not Reported  
 SWIS: 5228  
 Investigator: hmcirrit  
 Referred To: Not Reported  
 Reported to Dept: 2012-06-15  
 CID: Not Reported  
 Water Affected: Not Reported  
 Spill Notifier: Responsible Party  
 Last Inspection: Not Reported  
 Recommended Penalty: False  
 Meets Standard: False  
 UST Involvement: False  
 Remediation Phase: 0  
 Date Entered In Computer: 2012-06-15  
 Spill Record Last Update: 2012-11-29  
 Spiller Name: AARON  
 Spiller Company: CUMBERLAND FARMS  
 Spiller Address: 4909 SUNRISE HIGHWAY  
 Spiller County: 999  
 Spiller Contact: AARON  
 Spiller Phone: (508) 270-4446  
 Spiller Extension: Not Reported  
 DEC Region: 1  
 DER Facility ID: 298857  
 DEC Memo: "OUTWALL OF TANK 06/15/12 1240 Hrs: Checked database- there does not appear to be any active spills here. DR 06/15/12 1245 Hrs: Left message for Cumberland. DR 06/15/12 1250 Hrs (A): Aaron called- THIS



## MAP FINDINGS

### CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)

WAS AN ANNUAL, ROUTINE TEST OF AN 8,000GAL TANK BY TANKNOLOGY. He was not certain whether any other tanks are being tested. 06/15/12 1250 Hrs (B): Upon removing the interstitial leak detection probes so they could be inspected they were noticed to be damp with gasoline. 06/15/12 1250 Hrs (C): TMC ENVIRONMENTAL is removing the product from the interstitial space at this time. 06/15/12 1250 Hrs (D): TYREE is on site to repair and reinstall the probes. If they go into alarm mode additional actions will be taken. DR 6/19/12: 10:45 T/C to Aaron @ Cumberland Farms. Tank did pass yesterdays interstitial test but it was not an official tank test. He will put a report together which will include the passing test result from an official tank test. He thinks the product which could have been water got into the interstitial space through a loose bung."

Remarks: "gasoline found in outerwall of tank during testing"

#### All TTF:

Facility ID:	1202591
Spill Number:	1202591
Spill Tank Test:	2494031
Site ID:	465364
Tank Number:	UNKNOWN
Tank Size:	0
Material:	0009
EPA UST:	True
UST:	True
Cause:	06
Source:	01
Test Method:	01
Test Method 2:	Petro-Tite/Petro Comp
Leak Rate:	.00
Gross Fail:	Not Reported
Modified By:	DJFARRAR
Last Modified Date:	Not Reported

#### All Materials:

Site ID:	465364
Operable Unit ID:	1215386
Operable Unit:	01
Material ID:	2213512
Material Code:	0009
Material Name:	gasoline
Case No.:	Not Reported
Material FA:	Petroleum
Quantity:	Not Reported
Units:	Not Reported



MAP FINDINGS
--------------

**CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Recovered:	Not Reported
Oxygenate:	Not Reported

**SPILLS: Records of Emergency Release Reports**

Facility ID:	9202956
Facility Type:	ER
Spill Number:	9202956
DER Facility ID:	252881
Site ID:	313633
DEC Region:	1
Closed Date:	1993-02-11
Spill Cause:	Unknown
Spill Class:	B3
SWIS:	5200
Spill Date:	1992-05-29
Investigator:	KMYAGER
Referred To:	Not Reported
Reported to Dept:	1992-06-10
CID:	Not Reported
Water Affected:	Not Reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Local Agency
Cleanup Ceased:	1993-02-11
Cleanup Meets Std:	False
Last Inspection:	Not Reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-06-11
Spill Record Last Update:	1993-02-11
Spiller Name:	Not Reported
Spiller Company:	EXXON S/S
Spiller Address:	Not Reported
Spiller Company:	001
Contact Name:	Not Reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEROSA "
Remarks:	"SITE ASSESSMENT SHOWS: SOIL 189 PPB, VOC'S WATER 5.5 PPB VOC'S"

**All Materials:**

Site ID:	313633
Operable Unit ID:	966972
Operable Unit:	01
Material ID:	410783
Material Code:	0009
Material Name:	gasoline
Case No.:	Not Reported
Material FA:	Petroleum
Quantity:	.00



MAP FINDINGS
--------------

**CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Units:	G
Recovered:	.00
Oxygenate:	Not Reported
Facility ID:	0609728
Facility Type:	ER
Spill Number:	0609728
DER Facility ID:	323805
Site ID:	374026
DEC Region:	1
Closed Date:	2006-11-27
Spill Cause:	Human Error
Spill Class:	C2
SWIS:	5228
Spill Date:	2006-11-26
Investigator:	Unassigned
Referred To:	Not Reported
Reported to Dept:	2006-11-26
CID:	76
Water Affected:	Not Reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not Reported
Cleanup Meets Std:	False
Last Inspection:	Not Reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-11-27
Spill Record Last Update:	2008-10-16
Spiller Name:	Not Reported
Spiller Company:	UNKNOWN CUSTOMER
Spiller Address:	Not Reported
Spiller Company:	999
Contact Name:	HARCHIAN
DEC Memo:	"11/27/06 11:30 TELECON WITH LORRAINE FROM CUMBERLAND FARMS, APPROX 5 GALS OF GASOLINE SPILLED ONTO CONCRETE PAD. NO STORM DRAINS, DRYWELLS AND PRIVATE WELLS AFFECTED. ATTENDANT APPLIED SPEEDI DRI TO ABSORB MATERIALS. AREA WAS SWEPT AND ALL IMPACTED SPEEDI DRI WAS REMOVED FROM SITE, THE NOZZLE HAS BEEN FIXED BY TYREE. NO ADDITIONAL ACTIONS REQUIRED BY CUMBERLAND FARMS NO RESPONSE"
Remarks:	"CALLER REPORTS SPILL DUE TO CUSTOMER DEFEATING THE SAFETY MECHANISM ON GAS SUPPLY NOZZLE BY PLACING GAS CAP INTO NOZZLE HANDLE. SPILL CONTAINED TO CONCRETE PAD. SPILL WAS CLEANED UP USING SPEEDY DRY."

**All Materials:**

Site ID:	374026
Operable Unit ID:	1131711



MAP FINDINGS
--------------

**CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Operable Unit:	01
Material ID:	2121424
Material Code:	0009
Material Name:	gasoline
Case No.:	Not Reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	5.00
Oxygenate:	Not Reported
Facility ID:	1204916
Facility Type:	ER
Spill Number:	1204916
DER Facility ID:	350165
Site ID:	467822
DEC Region:	1
Closed Date:	2013-02-08
Spill Cause:	Other
Spill Class:	D4
SWIS:	5228
Spill Date:	2012-08-15
Investigator:	Unassigned
Referred To:	Not Reported
Reported to Dept:	2012-08-15
CID:	Not Reported
Water Affected:	Not Reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not Reported
Cleanup Meets Std:	False
Last Inspection:	Not Reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2012-08-15
Spill Record Last Update:	2013-02-20
Spiller Name:	MELISSA GLIDDEN
Spiller Company:	CUMBERLAND FARMS
Spiller Address:	Not Reported
Spiller Company:	999
Contact Name:	MELISSA GLIDDEN
DEC Memo:	<p>****SEVERE THUNDERSTORM EARLIER THIS DATE**** DR 08/15/12 1455 Hrs:</p> <p>Left message for Glidden- please confirm this involved water, with possibly some gas, in the sump(s) of the tanks. DR"</p>
Remarks:	"Tyree on rte for removal"

**All Materials:**

Site ID:	467822
----------	--------



MAP FINDINGS
--------------

**CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Operable Unit ID:	1217763
Operable Unit:	01
Material ID:	2235440
Material Code:	0009
Material Name:	gasoline
Case No.:	Not Reported
Material FA:	Petroleum
Quantity:	Not Reported
Units:	Not Reported
Recovered:	Not Reported
Oxygenate:	Not Reported
Site ID:	467822
Operable Unit ID:	1217763
Operable Unit:	01
Material ID:	2216067
Material Code:	9999
Material Name:	other - liquid in sump
Case No.:	Not Reported
Material FA:	Other
Quantity:	Not Reported
Units:	Not Reported
Recovered:	Not Reported
Oxygenate:	Not Reported
Facility ID:	0712416
Facility Type:	ER
Spill Number:	0712416
DER Facility ID:	323805
Site ID:	394025
DEC Region:	1
Closed Date:	2008-04-15
Spill Cause:	Other
Spill Class:	D4
SWIS:	5228
Spill Date:	2008-02-25
Investigator:	Unassigned
Referred To:	Not Reported
Reported to Dept:	2008-02-25
CID:	408
Water Affected:	Not Reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not Reported
Cleanup Meets Std:	False
Last Inspection:	Not Reported
Recommended Penalty:	False
UST Trust:	Not Reported
Remediation Phase:	0
Date Entered In Computer:	2008-02-25



MAP FINDINGS
--------------

**CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Spill Record Last Update:	2009-04-11
Spiller Name:	MELLISSA GLIDDEN
Spiller Company:	CUMBERLAND #70209
Spiller Address:	4909 SUNRISE HWY
Spiller Company:	001
Contact Name:	MELLISSA GLIDDEN
DEC Memo:	""
Remarks:	"WATER IN SUMP; WEATHER RELATED; TYREE WILL HANDLE CLEAN UP;"

**All Materials:**

Site ID:	394025
Operable Unit ID:	1150972
Operable Unit:	01
Material ID:	2141626
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not Reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not Reported
Facility ID:	0805016
Facility Type:	ER
Spill Number:	0805016
DER Facility ID:	323805
Site ID:	402044
DEC Region:	1
Closed Date:	2008-07-31
Spill Cause:	Unknown
Spill Class:	D4
SWIS:	5228
Spill Date:	2008-07-31
Investigator:	Unassigned
Referred To:	Not Reported
Reported to Dept:	2008-07-31
CID:	406
Water Affected:	Not Reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not Reported
Cleanup Meets Std:	False
Last Inspection:	Not Reported
Recommended Penalty:	False
UST Trust:	Not Reported
Remediation Phase:	0
Date Entered In Computer:	2008-08-01
Spill Record Last Update:	2009-04-01
Spiller Name:	MELISSA GLIDEN



MAP FINDINGS
--------------

**CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Spiller Company:	CUMBERLAND FARMS #70209
Spiller Address:	4909 SUNRISE HWY
Spiller Company:	001
Contact Name:	MELISSA GLIDEN
DEC Memo:	""
Remarks:	"PBS No: 5-0059 -PBS No. not found in UIS, may be invalid. Found water in the sump. Phoenix Environmental will be pumping it out."

**All Materials:**

Site ID:	402044
Operable Unit ID:	1158815
Operable Unit:	01
Material ID:	2149902
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not Reported
Material FA:	Other
Quantity:	Not Reported
Units:	G
Recovered:	.00
Oxygenate:	Not Reported
Facility ID:	0804031
Facility Type:	ER
Spill Number:	0804031
DER Facility ID:	350165
Site ID:	400865
DEC Region:	1
Closed Date:	2008-08-07
Spill Cause:	Other
Spill Class:	D4
SWIS:	5228
Spill Date:	2008-07-08
Investigator:	Unassigned
Referred To:	Not Reported
Reported to Dept:	2008-07-08
CID:	444
Water Affected:	Not Reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not Reported
Cleanup Meets Std:	False
Last Inspection:	Not Reported
Recommended Penalty:	False
UST Trust:	Not Reported
Remediation Phase:	0
Date Entered In Computer:	2008-07-08
Spill Record Last Update:	2009-04-01
Spiller Name:	MELISSA GLIDDEN
Spiller Company:	CUMBERLAND



MAP FINDINGS
--------------

**CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Spiller Address:	4909 SUNRISE HWY
Spiller Company:	001
Contact Name:	MELLISSA GLIDDEN
DEC Memo:	""
Remarks:	"PHOENIX TO PUMP OUT WATER"

**All Materials:**

Site ID:	400865
Operable Unit ID:	1157678
Operable Unit:	01
Material ID:	2148707
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not Reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not Reported
Facility ID:	0811344
Facility Type:	ER
Spill Number:	0811344
DER Facility ID:	298857
Site ID:	408919
DEC Region:	1
Closed Date:	2009-02-04
Spill Cause:	Other
Spill Class:	C4
SWIS:	5228
Spill Date:	2009-01-14
Investigator:	Unassigned
Referred To:	Not Reported
Reported to Dept:	2009-01-14
CID:	Not Reported
Water Affected:	Not Reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not Reported
Cleanup Meets Std:	False
Last Inspection:	Not Reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-01-14
Spill Record Last Update:	2009-04-01
Spiller Name:	MELISSA GLIDDEN
Spiller Company:	CUMBERLAND FARMS # 70209
Spiller Address:	4909 SUNRISE HWY
Spiller Company:	999



MAP FINDINGS
--------------

**CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Contact Name: MELISSA GLIDDEN  
 DEC Memo: ""  
 Remarks: "WATER IN THE SUMP PUMP OUT WILL BE DONE BY PHOENIX ENVIRONMETNAL."

**All Materials:**

Site ID: 408919  
 Operable Unit ID: 1165425  
 Operable Unit: 01  
 Material ID: 2156832  
 Material Code: 9999  
 Material Name: other - WATER  
 Case No.: Not Reported  
 Material FA: Other  
 Quantity: Not Reported  
 Units: G  
 Recovered: Not Reported  
 Oxygenate: Not Reported

Facility ID: 0001096  
 Facility Type: ER  
 Spill Number: 0001096  
 DER Facility ID: 298857  
 Site ID: 223874  
 DEC Region: 1  
 Closed Date: 2005-08-23  
 Spill Cause: Other  
 Spill Class: B3  
 SWIS: 5228  
 Spill Date: 2000-04-19  
 Investigator: CAENGELH  
 Referred To: Not Reported  
 Reported to Dept: 2000-04-27  
 CID: 396  
 Water Affected: Not Reported  
 Spill Source: Gasoline Station or other PBS Facility  
 Spill Notifier: Other  
 Cleanup Ceased: Not Reported  
 Cleanup Meets Std: False  
 Last Inspection: Not Reported  
 Recommended Penalty: False  
 UST Trust: False  
 Remediation Phase: 0  
 Date Entered In Computer: 2000-04-27  
 Spill Record Last Update: 2017-11-06  
 Spiller Name: STEVE BELIM (TOSCO)  
 Spiller Company: EXXON MOBIL  
 Spiller Address: Not Reported  
 Spiller Company: 001  
 Contact Name: STEVE DELIM  
 DEC Memo: "Prior to Sept, 2004 data translation this spill Lead\_DEC Field was



# MAP FINDINGS

## CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)

ENGELHARDT 1 BORING - 530 MG/L MTBE & LESSER BTEX CONCENTRATIONS -  
REPORT WILL BE FORWARDED UPON COMPLETION. 6/2/00 FILE REASSIGNED  
8/21/00 FILE REASSIGNED 3 SOIL BORINGS -CLEAN, 1 GW SAMPLE CLEAN  
EXCEPT FOR 530 PPB MTBE"

Remarks: "Lab results showed ground water contamination. Under investigation  
with intent to clean up."

### All Materials:

Site ID:	223874
Operable Unit ID:	822878
Operable Unit:	01
Material ID:	289323
Material Code:	0009
Material Name:	gasoline
Case No.:	Not Reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not Reported
Facility ID:	9009311
Facility Type:	ER
Spill Number:	9009311
DER Facility ID:	298857
Site ID:	223875
DEC Region:	1
Closed Date:	1991-02-07
Spill Cause:	Other
Spill Class:	B3
SWIS:	5228
Spill Date:	1990-11-14
Investigator:	KMYAGER
Referred To:	Not Reported
Reported to Dept:	1990-11-26
CID:	Not Reported
Water Affected:	Not Reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	1991-02-07
Cleanup Meets Std:	True
Last Inspection:	Not Reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	1990-11-30
Spill Record Last Update:	2009-07-23
Spiller Name:	Not Reported



MAP FINDINGS
--------------

**CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Spiller Company:	EXXON S/S
Spiller Address:	Not Reported
Spiller Company:	001
Contact Name:	Not Reported
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was DEROSA 1/18 SPOKE WITH DAVE OBRIG, NO FURTHER ACTION EXCAVATION BACKFILLED "
Remarks:	"TANK REMOVAL, REMOVED 80 YDS CONT SOIL, SCHD ON SITE"

**All Materials:**

Site ID:	223875
Operable Unit ID:	949808
Operable Unit:	01
Material ID:	429535
Material Code:	0009
Material Name:	gasoline
Case No.:	Not Reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not Reported
Facility ID:	0810476
Facility Type:	ER
Spill Number:	0810476
DER Facility ID:	298857
Site ID:	407997
DEC Region:	1
Closed Date:	2009-01-22
Spill Cause:	Housekeeping
Spill Class:	C4
SWIS:	5228
Spill Date:	2008-12-17
Investigator:	Unassigned
Referred To:	Not Reported
Reported to Dept:	2008-12-17
CID:	Not Reported
Water Affected:	Not Reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not Reported
Cleanup Meets Std:	False
Last Inspection:	Not Reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2008-12-17
Spill Record Last Update:	2009-04-01



MAP FINDINGS
--------------

**CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Spiller Name:	MELISSA GLIDDEN
Spiller Company:	CUMBERLAND FARMS
Spiller Address:	4909 SUNRISE HWY
Spiller Company:	999
Contact Name:	MELISSA GLIDDEN
DEC Memo:	""
Remarks:	"Caller states there is water in the spill buckets. Phoenix environmental is enroute for clean up."

**All Materials:**

Site ID:	407997
Operable Unit ID:	1164529
Operable Unit:	01
Material ID:	2155908
Material Code:	0060A
Material Name:	wastewater
Case No.:	Not Reported
Material FA:	Other
Quantity:	Not Reported
Units:	Not Reported
Recovered:	Not Reported
Oxygenate:	Not Reported
Facility ID:	0904734
Facility Type:	ER
Spill Number:	0904734
DER Facility ID:	350165
Site ID:	416940
DEC Region:	1
Closed Date:	2010-03-22
Spill Cause:	Other
Spill Class:	C4
SWIS:	5228
Spill Date:	2009-07-23
Investigator:	Unassigned
Referred To:	Not Reported
Reported to Dept:	2009-07-23
CID:	Not Reported
Water Affected:	Not Reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not Reported
Cleanup Meets Std:	False
Last Inspection:	Not Reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-07-23
Spill Record Last Update:	2010-04-29
Spiller Name:	MELISSA GLIDDEN



# MAP FINDINGS

## CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)

Spiller Company: CUMBERLAND FARMS # 70209  
 Spiller Address: 4909 SUNRISE HWY  
 Spiller Company: 999  
 Contact Name: MELISSA GLIDDEN  
 DEC Memo: "\*\*\*\*HEAVY RAIN 21-22JUL09\*\*\* DR"  
 Remarks: "WATER IN THE SUMP PUMP OUT WILL BE DONE BY PHOENIX."

### All Materials:

Site ID: 416940  
 Operable Unit ID: 1173199  
 Operable Unit: 01  
 Material ID: 2165093  
 Material Code: 9999  
 Material Name: other - WATER  
 Case No.: Not Reported  
 Material FA: Other  
 Quantity: Not Reported  
 Units: G  
 Recovered: Not Reported  
 Oxygenate: Not Reported

Facility ID: 0902645  
 Facility Type: ER  
 Spill Number: 0902645  
 DER Facility ID: 298857  
 Site ID: 414702  
 DEC Region: 1  
 Closed Date: 2009-07-17  
 Spill Cause: Other  
 Spill Class: D5  
 SWIS: 5228  
 Spill Date: 2009-06-04  
 Investigator: Unassigned  
 Referred To: Not Reported  
 Reported to Dept: 2009-06-04  
 CID: Not Reported  
 Water Affected: Not Reported  
 Spill Source: Gasoline Station or other PBS Facility  
 Spill Notifier: Responsible Party  
 Cleanup Ceased: Not Reported  
 Cleanup Meets Std: False  
 Last Inspection: Not Reported  
 Recommended Penalty: False  
 UST Trust: False  
 Remediation Phase: 0  
 Date Entered In Computer: 2009-06-04  
 Spill Record Last Update: 2009-07-20  
 Spiller Name: MELISSA GLIDDEN  
 Spiller Company: CUMBERLAND FARMS  
 Spiller Address: Not Reported



MAP FINDINGS
--------------

**CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Spiller Company:	999
Contact Name:	CALLER
DEC Memo:	""
Remarks:	"Water in the sumps."

**All Materials:**

Site ID:	414702
Operable Unit ID:	1171081
Operable Unit:	01
Material ID:	2162869
Material Code:	0060A
Material Name:	wastewater
Case No.:	Not Reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	Not Reported
Oxygenate:	Not Reported
Facility ID:	0913512
Facility Type:	ER
Spill Number:	0913512
DER Facility ID:	323805
Site ID:	426460
DEC Region:	1
Closed Date:	2010-08-17
Spill Cause:	Other
Spill Class:	D4
SWIS:	5228
Spill Date:	2010-03-23
Investigator:	Unassigned
Referred To:	Not Reported
Reported to Dept:	2010-03-23
CID:	Not Reported
Water Affected:	Not Reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not Reported
Cleanup Meets Std:	False
Last Inspection:	Not Reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-03-23
Spill Record Last Update:	2010-10-13
Spiller Name:	MELISSA GLIDDEN
Spiller Company:	CUMBERLAND FARMS # 70209
Spiller Address:	Not Reported
Spiller Company:	999
Contact Name:	MELISSA GLIDDEN



# MAP FINDINGS

## CUMBERLAND FARMS # 70209, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)

DEC Memo: \*\*\*\*HEAVY RAIN OVERNIGHT\*\*\* DR"  
Remarks: "WATER IN THE SUMP PUMP OUT WILL BE DONE BY PHOENIX."

### All Materials:

Site ID: 426460  
Operable Unit ID: 1182141  
Operable Unit: 01  
Material ID: 2176297  
Material Code: 9999  
Material Name: other - WATER  
Case No.: Not Reported  
Material FA: Other  
Quantity: Not Reported  
Units: G  
Recovered: Not Reported  
Oxygenate: Not Reported

ED MIR SERVICE STATION 4909 SUNRISE HIGHWAY, BOHEMIA, NY, 11716			1021466391
▲ D4	NNW <1/10	(520 ft. / 0.098 mi.)	EDR Exclusive Records
	19 ft. Higher Elevation	51 ft. Above Sea Level	

### Worksheet:

**Impact on Target Property:** VEC does not exist

**Comments:** A review of the spills at the site do not exhibit evidence of off-site migration of contamination.

### Conditions:

Petroleum Hydrocarbon Chemicals of Concern: YES

### Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

Hydrogeologically: YES

### EDR Hist Auto: EDR Exclusive Records

Year:	Name: / Type:
1982:	ED MIR SERVICE STATION / Gasoline Service Stations
1983:	ED MIR SERVICE STATION / Gasoline Service Stations
1985:	ED MIR SERVICE STATION / Gasoline Service Stations
1986:	ED MIR SERVICE STATION / Gasoline Service Stations
1987:	ED MIR SERVICE STATION / Gasoline Service Stations
1988:	ED MIR SERVICE STATION / Gasoline Service Stations
1989:	ED MIR SERVICE STATION / Gasoline Service Stations
1990:	ED MIR SERVICE STATION / Gasoline Service Stations
1991:	ED MIR SERVICE STATION / Gasoline Service Stations
1992:	ED MIR SERVICE STATION / Gasoline Service Stations
1993:	ED MIR SERVICE STATION / Gasoline Service Stations
1994:	ED MIR SERVICE STATION / Gasoline Service Stations
1995:	ED MIR SERVICE STATION / Gasoline Service Stations



# MAP FINDINGS

## ED MIR SERVICE STATION, 4909 SUNRISE HIGHWAY, BOHEMIA, NY 11716 (Continued)

2002:	EDMIR SERVICE STATION / Gasoline Service Stations
2002:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2003:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2004:	KINGS COMPLETE AUTO SERVICE / General Automotive Repair Shops
2004:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2005:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2005:	KINGS COMPLETE AUTO SERVICE / General Automotive Repair Shops
2006:	KINGS COMPLETE AUTO SERVICE / General Automotive Repair Shops
2006:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2007:	KINGS COMPLETE AUTO SERVICE / General Automotive Repair Shops
2007:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2008:	NICOS WAY AUTOMOTIVE / Automotive Repair Shops, NEC
2008:	KINGS COMPLETE AUTO SERVICE / General Automotive Repair Shops
2008:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2009:	NICOS WAY AUTOMOTIVE / Automotive Repair Shops, NEC
2009:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2010:	NICOS WAY AUTOMOTIVE / Automotive Repair Shops, NEC
2010:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2011:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2011:	NICOS WAY AUTOMOTIVE / Automotive Repair Shops, NEC
2012:	NICOS WAY AUTOMOTIVE / Automotive Repair Shops, NEC
2012:	GULF GAS / Gasoline Service Stations, NEC
2012:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2013:	GULF GAS / Gasoline Service Stations, NEC
2013:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2014:	BOHEMIA DEVELOPMENT CORP / Gasoline Service Stations
2014:	GULF GAS / Gasoline Service Stations, NEC
2014:	CONCEPT AUTOMOTIVE / Automotive Repair Shops, NEC

BP PRODUCTS NORTH AMERICA INC - BP 66392 4909 SUNRISE HWY, BOHEMIA, NY, 11716			1000457607
▲ D5	NNW <1/10	(520 ft. / 0.098 mi.)	Federal RCRA generators list
	19 ft. Higher Elevation	51 ft. Above Sea Level	State and tribal registered storage tank lists Other Ascertainable Records

### Worksheet:

**Impact on Target Property:** VEC does not exist

**Comments:** A review of the spills at the site do not exhibit evidence of off-site migration of contamination.

### Conditions:

Petroleum Hydrocarbon Chemicals of Concern: YES

### Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

Hydrogeologically: YES

### RCRA-SQG: Federal RCRA generators list

Date form received by agency: 07/11/2017  
Facility name: BP PRODUCTS NORTH AMERICA INC - BP 66392  
Facility address: 4909 SUNRISE HWY



# MAP FINDINGS

## BP PRODUCTS NORTH AMERICA INC - BP 66392, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)

BOHEMIA, NY 11716

EPA ID: NYD986928687

Mailing address: PO BOX 80249  
RANCHO SANTA MARGARITA, CA 92688

Contact: JOHN MAHONEY

Contact address: PO BOX 6038  
ARTESIA, CA 90702

Contact country: US

Contact telephone: 973-392-6150

Contact email: JOHN.MAHONEY@BP.COM

EPA Region: 02

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

### Owner/Operator Summary:

Owner/operator name: TOSCO

Owner/operator address: PO BOX 52085  
PHOENIX, AZ 85072

Owner/operator country: US

Owner/operator telephone: 602-728-8000

Owner/operator email: Not Reported

Owner/operator fax: Not Reported

Owner/operator extension: Not Reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 01/01/2001

Owner/Op end date: Not Reported

Owner/operator name: NO NAME FOUND

Owner/operator address: Not Reported

Owner/operator country: Not Reported

Owner/operator telephone: Not Reported

Owner/operator email: Not Reported

Owner/operator fax: Not Reported

Owner/operator extension: Not Reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 09/10/2003

Owner/Op end date: Not Reported

Owner/operator name: BP PRODUCTS NORTH AMERICA INC

Owner/operator address: PO BOX 6038  
ARTESIA, CA 90702

Owner/operator country: US

Owner/operator telephone: 360-526-3917

Owner/operator email: Not Reported

Owner/operator fax: Not Reported



MAP FINDINGS
--------------

**BP PRODUCTS NORTH AMERICA INC - BP 66392, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Owner/operator extension:	Not Reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	06/26/2017
Owner/Op end date:	Not Reported
Owner/operator name:	NO NAME FOUND
Owner/operator address:	Not Reported
Owner/operator country:	Not Reported
Owner/operator telephone:	Not Reported
Owner/operator email:	Not Reported
Owner/operator fax:	Not Reported
Owner/operator extension:	Not Reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	09/10/2003
Owner/Op end date:	Not Reported
Owner/operator name:	BP PRODUCTS NORTH AMERICA INC
Owner/operator address:	Not Reported
Owner/operator country:	Not Reported
Owner/operator telephone:	Not Reported
Owner/operator email:	Not Reported
Owner/operator fax:	Not Reported
Owner/operator extension:	Not Reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/26/2017
Owner/Op end date:	Not Reported

**Handler Activities Summary:**

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
. Waste code:	D018
. Waste name:	BENZENE

**Historical Generators:**



# MAP FINDINGS

## BP PRODUCTS NORTH AMERICA INC - BP 66392, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)

Date form received by agency:	01/01/2007
Site name:	EXXON DIV OF CFI #70209
Classification:	Not a generator, verified
Date form received by agency:	01/01/2006
Site name:	EXXON DIV OF CFI #70209
Classification:	Not a generator, verified
Date form received by agency:	10/01/2004
Site name:	EXXON DIV OF CFI #70209
Classification:	Small Quantity Generator
. Waste code:	D001
. Waste name:	IGNITABLE WASTE
Date form received by agency:	08/08/2001
Site name:	TOSCO #34638
Classification:	Conditionally Exempt Small Quantity Generator
. Waste code:	D000
. Waste name:	Not Defined
. Waste code:	D001
. Waste name:	IGNITABLE WASTE
. Waste code:	D006
. Waste name:	CADMIUM
. Waste code:	D007
. Waste name:	CHROMIUM
. Waste code:	D008
. Waste name:	LEAD
. Waste code:	D018
. Waste name:	BENZENE
. Waste code:	F001
. Waste name:	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
. Waste code:	F002
. Waste name:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
. Waste code:	F003



# MAP FINDINGS

## BP PRODUCTS NORTH AMERICA INC - BP 66392, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)

Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 07/08/1999  
 Site name: TOSCO #34638  
 Classification: Not a generator, verified

Date form received by agency: 02/25/1992  
 Site name: EXXON #31720  
 Classification: Large Quantity Generator

Date form received by agency: 10/24/1990  
 Site name: TOSCO #34638  
 Classification: Large Quantity Generator

Violation Status: No violations found

## NY MANIFEST: Other Ascertainable Records

Country: USA  
 EPA ID: NYD986928687  
 Facility Status: Not Reported  
 Location Address 1: 4909 SUNRISE HIGHWAY  
 Code: BP  
 Location Address 2: Not Reported  
 Total Tanks: Not Reported  
 Location City: BOHEMIA  
 Location State: NY  
 Location Zip: 11716  
 Location Zip 4: Not Reported

## NY MANIFEST:

EPAID: NYD986928687  
 Mailing Name: EXXON  
 Mailing Contact: EXXON  
 Mailing Address 1: P O BOX 2180  
 Mailing Address 2: Not Reported  
 Mailing City: HOUSTON  
 Mailing State: TX  
 Mailing Zip: 77252  
 Mailing Zip 4: Not Reported  
 Mailing Country: USA  
 Mailing Phone: 0000000000

## NY MANIFEST:

Document ID: NJA2892444  
 Manifest Status: Not Reported  
 seq: 01



MAP FINDINGS
--------------

**BP PRODUCTS NORTH AMERICA INC - BP 66392, 4909 SUNRISE HWY, BOHEMIA, NY 11716 (Continued)**

Year:	1999
Trans1 State ID:	S6993
Trans2 State ID:	Not Reported
Generator Ship Date:	01/06/1999
Trans1 Recv Date:	01/06/1999
Trans2 Recv Date:	Not Reported
TSD Site Recv Date:	01/06/1999
Part A Recv Date:	Not Reported
Part B Recv Date:	Not Reported
Generator EPA ID:	NYD986928687
Trans1 EPA ID:	NJD980772768
Trans2 EPA ID:	Not Reported
TSD ID 1:	NJD991291105
TSD ID 2:	Not Reported
Manifest Tracking Number:	Not Reported
Import Indicator:	Not Reported
Export Indicator:	Not Reported
Discr Quantity Indicator:	Not Reported
Discr Type Indicator:	Not Reported
Discr Residue Indicator:	Not Reported
Discr Partial Reject Indicator:	Not Reported
Discr Full Reject Indicator:	Not Reported
Manifest Ref Number:	Not Reported
Alt Facility RCRA ID:	Not Reported
Alt Facility Sign Date:	Not Reported
MGMT Method Type Code:	Not Reported
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Waste Code:	Not Reported
Waste Code:	Not Reported
Waste Code:	Not Reported
Waste Code:	Not Reported
Waste Code:	Not Reported
Quantity:	00165
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

The NY\_MANIFEST: database contains 9 additional records for this site. Please contact your EDR Account Executive for more information.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
<b>ENVIRONMENTAL RECORDS</b>						
<b>Federal NPL site list</b>						
US	NPL	National Priority List	EPA	12/11/2017	12/22/2017	01/05/2018
US	Proposed NPL	Proposed National Priority List Sites	EPA	12/11/2017	12/22/2017	01/05/2018
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
<b>Federal CERCLIS list</b>						
US	SEMS	Superfund Enterprise Management System	EPA	01/09/2018	02/06/2018	04/13/2018
<b>Federal RCRA CORRACTS facilities list</b>						
US	CORRACTS	Corrective Action Report	EPA	12/11/2017	12/26/2017	02/09/2018
<b>Federal RCRA TSD facilities list</b>						
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
<b>Federal RCRA generators list</b>						
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
<b>Federal institutional controls / engineering controls registries</b>						
US	LUCIS	Land Use Control Information System	Department of the Navy	02/16/2018	02/22/2018	05/11/2018
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	02/13/2018	02/27/2018	05/11/2018
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	02/13/2018	02/27/2018	05/11/2018
<b>Federal ERNS list</b>						
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	01/16/2018	01/19/2018	03/23/2018
<b>State and tribal - equivalent CERCLIS</b>						
NY	SHWS	Inactive Hazardous Waste Disposal Sites in New York State	Department of Environmental Conservation	02/12/2018	02/14/2018	03/27/2018
<b>State and tribal landfill / solid waste disposal</b>						
NY	SWF/LF	Facility Register	Department of Environmental Conservation	12/08/2017	01/02/2018	01/31/2018
<b>State and tribal leaking storage tank lists</b>						
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/16/2017	01/23/2018	04/13/2018
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	10/24/2017	01/23/2018	04/13/2018
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	09/30/2017	01/23/2018	04/13/2018
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/12/2017	01/23/2018	04/13/2018
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	10/12/2017	01/23/2018	04/13/2018
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	01/06/2018	01/23/2018	04/13/2018
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	10/14/2017	01/23/2018	04/13/2018
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/14/2017	01/23/2018	04/13/2018
NY	LTANKS	Spills Information Database	Department of Environmental Conservation	02/12/2018	02/14/2018	03/16/2018
NY	HIST LTANKS	Listing of Leaking Storage Tanks	Department of Environmental Conservation	01/01/2002	07/08/2005	07/14/2005



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
<b>State and tribal registered storage tank lists</b>						
NY	TANKS	Storage Tank Facility Listing	Department of Environmental Conservation	03/26/2018	03/28/2018	04/30/2018
NY	UST	Petroleum Bulk Storage (PBS) Database	Department of Environmental Conservation	03/26/2018	03/28/2018	04/27/2018
NY	CBS UST	Chemical Bulk Storage Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	MOSF UST	Major Oil Storage Facilities Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	AST	Petroleum Bulk Storage	Department of Environmental Conservation	03/26/2018	03/28/2018	04/27/2018
NY	CBS AST	Chemical Bulk Storage Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	MOSF AST	Major Oil Storage Facilities Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	CBS	Chemical Bulk Storage Site Listing	Department of Environmental Conservation	03/26/2018	03/28/2018	05/14/2018
NY	MOSF	Major Oil Storage Facility Site Listing	Department of Environmental Conservation	03/26/2018	03/28/2018	05/14/2018
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/24/2017	07/27/2017	12/08/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/14/2017	01/23/2018	04/13/2018
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/12/2017	01/23/2018	04/13/2018
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	01/13/2018	01/23/2018	04/13/2018
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	09/30/2017	01/23/2018	04/13/2018
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/16/2017	01/23/2018	04/13/2018
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	10/14/2017	01/23/2018	04/13/2018
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	10/24/2017	01/23/2018	04/13/2018
US	FEMA UST	Underground Storage Tank Listing	FEMA	05/15/2017	05/30/2017	10/13/2017
<b>State and tribal institutional control / engineering control registries</b>						
NY	RES DECL	Restrictive Declarations Listing	NYC Department of City Planning	11/18/2010	06/30/2014	07/21/2014
NY	ENV RES DECL	Environmental Restrictive Declarations	New York City Department of City Planning	06/27/2017	09/21/2017	09/22/2017
NY	ENG CONTROLS	Registry of Engineering Controls	Department of Environmental Conservation	02/12/2018	02/14/2018	03/27/2018
NY	INST CONTROL	Registry of Institutional Controls	Department of Environmental Conservation	02/12/2018	02/14/2018	03/27/2018
<b>State and tribal voluntary cleanup sites</b>						
US	INDIAN VCP R7	Voluntary Cleanup Priority Listing	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
NY	VCP	Voluntary Cleanup Agreements	Department of Environmental Conservation	02/12/2018	02/14/2018	03/27/2018
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
NY	VCP NYC	Voluntary Cleanup Program Listing NYC	New York City Office of Environmental Protect	03/26/2018	03/29/2018	05/14/2018
<b>State and tribal Brownfields sites</b>						
NY	BROWNFIELDS	Brownfields Site List	Department of Environmental Conservation	02/12/2018	02/14/2018	03/27/2018
NY	ERP	Environmental Restoration Program Listing	Department of Environmental Conservation	02/12/2018	02/14/2018	03/27/2018
<b>Other Records</b>						
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/31/2017	01/24/2018	04/13/2018
US	ROD	Records Of Decision	EPA	01/09/2018	02/06/2018	05/11/2018
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	01/09/2018	02/06/2018	05/11/2018
NY	DEL SHWS	Delisted Registry Sites	Department of Environmental Conservation	02/12/2018	02/14/2018	03/27/2018
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
NY	SWTIRE	Registered Waste Tire Storage & Facility List	Department of Environmental Conservation	12/12/2017	12/14/2017	01/31/2018
NY	SWRCY	Registered Recycling Facility List	Department of Environmental Conservation	12/08/2017	01/02/2018	01/31/2018
NY	HIST UST	Historical Petroleum Bulk Storage Database	Department of Environmental Conservation	01/01/2002	06/02/2006	07/20/2006
NY	HIST AST	Historical Petroleum Bulk Storage Database	Department of Environmental Conservation	01/01/2002	06/02/2006	07/20/2006



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	07/01/2014	09/10/2014	10/20/2014
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	02/22/2018	03/01/2018	05/11/2018
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	01/11/2018	01/19/2018	03/02/2018
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	01/09/2018	02/06/2018	03/02/2018
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	04/22/2013	03/03/2015	03/09/2015
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	12/23/2016	12/27/2016	02/17/2017
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017
US	Delisted NPL	National Priority List Deletions	EPA	12/11/2017	12/22/2017	01/05/2018
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	01/09/2018	02/06/2018	04/13/2018
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	01/19/2018	01/19/2018	03/23/2018
US	DOT OPS	Incident and Accident Data	Department of Transportation, Office of Pipeli	07/31/2012	08/07/2012	09/18/2012
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	02/22/2018	03/01/2018	05/11/2018
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	01/19/2018	01/19/2018	02/09/2018
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	01/31/2015	07/08/2015	10/13/2015
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	06/23/2017	10/11/2017	11/03/2017
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	01/25/2018	02/28/2018	05/11/2018
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	PRP	Potentially Responsible Parties	EPA	10/25/2013	10/17/2014	10/20/2014
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2016	01/10/2018	01/12/2018
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	PADS	PCB Activity Database System	EPA	06/01/2017	06/09/2017	10/13/2017
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/30/2016	09/08/2016	10/21/2016
US	RADINFO	Radiation Information Database	Environmental Protection Agency	01/03/2018	01/04/2018	04/13/2018
US	FINDS	Facility Index System/Facility Registry System	EPA	02/21/2018	02/23/2018	03/23/2018
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RMP	Risk Management Plans	Environmental Protection Agency	11/02/2017	11/17/2017	12/08/2017
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2015	02/22/2017	09/28/2017
US	PWS	Public Water System Data	EPA	12/17/2013	01/09/2014	10/15/2014
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl Date	Active Date
NY	AIRS	Air Emissions Data	Department of Environmental Conservation	02/07/2018	02/13/2018	03/27/2018
NY	COAL ASH	Coal Ash Disposal Site Listing	Department of Environmental Conservation	09/25/2017	09/26/2017	10/12/2017
NY	DRYCLEANERS	Registered Drycleaners	Department of Environmental Conservation	11/22/2017	12/14/2017	01/29/2018
NY	E DESIGNATION	E DESIGNATION SITE LISTING	New York City Department of City Planning	02/14/2018	03/23/2018	05/14/2018
NY	Financial Assurance 1	Financial Assurance Information Listing	Department of Environmental Conservation	12/01/2017	01/02/2018	01/31/2018
NY	Financial Assurance 2	Financial Assurance Information Listing	Department of Environmental Conservation	03/09/2017	04/12/2017	10/13/2017
NY	HIST SPILLS	SPILLS Database	Department of Environmental Conservation	01/01/2002	07/08/2005	07/14/2005
NY	HSWDS	Hazardous Substance Waste Disposal Site Inventory	Department of Environmental Conservation	01/01/2003	10/20/2006	11/30/2006
NY	LIENS	Spill Liens Information	Office of the State Comptroller	02/13/2018	02/16/2018	03/27/2018
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	12/31/2017	01/31/2018	03/09/2018
NY	SPDES	State Pollutant Discharge Elimination System	Department of Environmental Conservation	10/25/2017	10/27/2017	11/28/2017
NY	SPILLS	Spills Information Database	Department of Environmental Conservation	02/12/2018	02/14/2018	03/16/2018
NY	SPILLS 80	SPILLS80 data from FirstSearch	FirstSearch	11/02/2010	01/03/2013	03/07/2013
NY	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	12/14/2012	01/03/2013	02/12/2013
NY	UIC	Underground Injection Control Wells	Department of Environmental Conservation	03/04/2018	03/08/2018	03/27/2018
NY	VAPOR REOPENED	Vapor Intrusion Legacy Site List	Department of Environmental Conservation	01/01/2018	02/15/2018	03/27/2018
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Services, Indian	04/01/2014	08/06/2014	01/29/2015
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	01/13/2018	01/19/2018	03/02/2018
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	02/20/2018	02/21/2018	03/23/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	12/20/2017	12/21/2017	03/23/2018
US	UXO	Unexploded Ordnance Sites	Department of Defense	09/30/2016	10/31/2017	01/12/2018
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	01/04/2018	01/19/2018	04/13/2018

### **HISTORICAL USE RECORDS**

US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
NY	RGA HWS	Recovered Government Archive State Hazardous Waste Facilities	Department of Environmental Conservation		07/01/2013	12/30/2013
NY	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Environmental Conservation		07/01/2013	01/10/2014

### **COUNTY RECORDS**

NY	AST - CORTLAND	Cortland County Storage Tank Listing	Cortland County Health Department	01/02/2018	03/05/2018	03/29/2018
NY	UST - CORTLAND	Cortland County Storage Tank Listing	Cortland County Health Department	01/02/2018	03/05/2018	03/29/2018
NY	AST - NASSAU	Registered Tank Database	Nassau County Health Department	01/09/2017	01/11/2017	02/15/2017
NY	AST NCFM	Storage Tank Database	Nassau County Office of the Fire Marshal	02/15/2011	02/23/2011	03/29/2011
NY	TANKS NASSAU	Registered Tank Database in Nassau County	Nassau County Department of Health	01/09/2017	01/11/2017	02/15/2017
NY	UST - NASSAU	Registered Tank Database	Nassau County Health Department	01/09/2017	01/11/2017	02/15/2017
NY	UST NCFM	Storage Tank Database	Nassau County Office of the Fire Marshal	02/15/2011	02/23/2011	03/29/2011
NY	AST - ROCKLAND	Petroleum Bulk Storage Database	Rockland County Health Department	02/02/2017	03/17/2017	09/22/2017
NY	UST - ROCKLAND	Petroleum Bulk Storage Database	Rockland County Health Department	02/02/2017	03/17/2017	09/22/2017
NY	AST - SUFFOLK	Storage Tank Database	Suffolk County Department of Health Services	03/03/2015	03/10/2015	03/23/2015
NY	UST - SUFFOLK	Storage Tank Database	Suffolk County Department of Health Services	03/03/2015	03/10/2015	03/23/2015
NY	AST - WESTCHESTER	Listing of Storage Tanks	Westchester County Department of Health	01/05/2018	02/20/2018	03/27/2018
NY	UST - WESTCHESTER	Listing of Storage Tanks	Westchester County Department of Health	01/05/2018	02/20/2018	03/27/2018



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
----	---------	-----------	-------------------	----------	------------	-------------

### STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.



# APPENDIX I

## FREEDOM OF INFORMATION ACT REQUESTS



**New York State Department of Environmental Conservation  
Division of Environmental Remediation, Region One  
Spill Prevention and Response**

Building 40 - SUNY, Stony Brook, New York 11790-2356  
Phone: (631) 444-0320 FAX: (631) 444-0328



Denise M. Sheehan  
Commissioner

January 3, 2006

**CERTIFIED LETTER - RETURN RECEIPT REQUESTED**

Mr. John Genovesi  
Island Hills Golf Club  
458 Lakeland Avenue  
Sayville, NY 11782

Re: Spill # 05-11071, Island Hills Golf Club, Lakeland Avenue, Sayville, NY

Dear Mr. Genovesi:

G&M Dege has informed the New York State Department of Environmental Conservation (DEC) that a line associated with a gasoline tank failed a Petrotite systems test on 12/21/05. In accordance with Article 12 of the New York State Navigation Law, I must determine if the tank system has released product that may contaminate the soil and/or groundwater of the State. In order for me to make this determination, you must do the following:

Excavate and investigate the condition of the piping and surrounding soil. You must immediately notify DEC to schedule an inspection if contaminated soil is encountered. The contaminated soil must be remediated and a representative of this department must inspect the excavation prior to backfilling. You may then replace or repair the piping, and retest the line using a state approved test method. **Be advised that the piping system cannot be used until the problem is resolved.**

You must complete the enclosed Tank Test Failure Check Sheet entirely, have it signed by a representative who is responsible for the tank system and/or property, and submit it to this office along with the tank test results and copies of the contaminated soil disposal manifests, if any, within thirty (30) days of rectifying the cause for failing the original test. The DEC will **not** consider closure of the referenced spill file until you complete and submit the Tank Test Failure Check Sheet and all attachments.

Please be advised that if the county fire marshal and/or health department required the line test for regulatory purposes, you may be limited to specific testing methods and/or contractors for that purpose. Be advised that you can only remove contaminated soil from the site by using a transporter

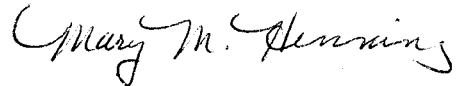


with a DEC Part 364 Permit.

Please call me at (631) 444-0333 to advise me of how you will proceed to resolve this problem. If this office does not receive a response from you by 1/17/06, DEC will proceed with further investigation of your site and will then seek reimbursement from you for all costs associated with the investigation/remediation in accordance with Article 12 of the New York State Navigation Law.

Should you have any questions or comments, please contact me at the above telephone number.

Sincerely,

A handwritten signature in cursive script that reads "Mary M. Henning".

Mary M. Henning  
Agency Program Aide

cc: A. Santino, SCDHS  
H. Cirrito, NYSDEC  
File



**New York State Department of Environmental Conservation  
Division of Environmental Remediation, Region One**

**Spill Prevention and Response**

Building 40 - SUNY, Stony Brook, New York 11790-2356

Phone: (631) 444-0320 FAX: (631) 444-0373



Denise M. Sheehan  
Commissioner

March 31, 2006

Mr. John Genovesi  
Island Hills Golf Club  
458 Lakeland Avenue  
Sayville, NY 11782

Re: Spill # 05-11071, Island Hills Golf Club Lakeland Avenue, Sayville, NY

Dear Mr. Genovesi:

This Department has reviewed the referenced spill file. Based upon this review and the documentation submitted to this office by you, we have no further requirements for this tank test failure at this time.

Should additional environmental problems be discovered at the referenced site, this office will require further action at that time. The spill file has been removed from our active spill list.

If you have any questions please contact me at (631) 444-0333.

Sincerely,

Mary M. Henning  
Agency Program Aide



**RECEIVED**

JAN 13 2006

**REG 1 - OIL SPILLS**SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
LINE TEST COVER SHEET  
Date: 07/28/2005

## FACILITY INFORMATION:

Facility Name: ISLAND HILLS GOLF CLUB  
Address: CNTY RD 93 LAKELAND AVE  
SAYVILLE, NY 11782  
0500 280.00 001 015.000

Tank Registration No.: 5-0263

File Reference No.: 07235

NYSDEC Spill # 0511071

## TESTING COMPANY INFORMATION:

Company Name:

Steve Mertens

Technician Name:

G + m Dege Inc

Technician License No.:

151Test Type (Circle one): EZY-Chek II / Petro-Comp / UST 2000 / Petro-Tite

## TEST INFORMATION:

TANK #	VOLUME	CONTENTS	O/R	TEST DATE	ITEM	RESULTS	PASS	SIPHON	COUNTY
					TESTED		Y/N	TO TK#	USE

① | 2 | 1000 | Gasoline

121231-15 LINE Angle check  
NOIT HOLDING

O/R - Orig. / Retest

Item Tested - System / Tank / Line / Other

Results - rate in gallons per hr.

Siphoned to Tank # - Enter the No. of the tank that test tank was  
siphoned to. (if applicable)IF TANK HAS MORE THAN ONE PRODUCT LINE PUT ADDITIONAL RESULTS ON A  
LINE TEST COVER SHEET.\*\*\*\*\*  
\* THIS FORM MUST BE SUBMITTED WITH THE LINE TEST RESULTS TO THE \*  
\* SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES. \*  
\*\*\*\*\*① Rec'd approval to convert  
to European System.  
G + m Dege Inc to schedule  
with SUFFOLK HEALTH DEPT.



# TTF CHECK SHEET

Spill # 05-11071



Date system passed a re-test (copy of results must be attached to this sheet) 2/15/06

What type of product is stored in the tank Gasoline

What type of product supply system is connected to the tank



Suction



Submersible



Other

## Tank System Repairs

☐ Manway or manway gasket, explain \_\_\_\_\_

☐ Fill pipe or fitting associated with the fill pipe, explain \_\_\_\_\_

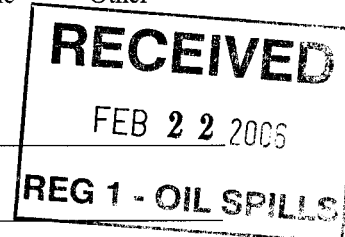
☐ Vent pipe or fitting associated with the vent pipe, explain \_\_\_\_\_

☒ Piping, fitting or pump(s) associated with the supply line, explain Removed faulty check valve & converted to European System

☐ Piping or fitting associated with the return line, explain \_\_\_\_\_

☐ Leak Detection System, explain \_\_\_\_\_

☐ Other (specify and explain) \_\_\_\_\_



## Remedial Activity

Was contaminated soil encountered at the site.....Yes \_\_\_\_\_, amount \_\_\_\_\_ No ☒

If yes, you must call NYS DEC to determine if an inspection of the site will be required prior to backfilling the excavation. Failure to comply will likely result in this office requiring a series of soil borings on the property to determine soil and groundwater conditions at the site. Copies of the contaminated soil disposal manifests (signed by the facility accepting the material) must be attached to this sheet.

Did the original failure result in a discharge to secondary containment.....Yes \_\_\_\_\_ No ☒

If yes, the secondary containment must be checked for tightness. If the secondary containment is not tight, soil under the containment must be checked for contamination. If found, you must call NYS DEC as stated above.

N/A Was the secondary containment tight.....Yes \_\_\_\_\_ No \_\_\_\_\_

N/A Was product removed from the secondary containment...Yes \_\_\_\_\_, amount \_\_\_\_\_ No \_\_\_\_\_

## Site History

Have any repairs, upgrades or modifications been performed on the tanks, piping, pumps or secondary containment at the site over the past year.....Yes ☒ No \_\_\_\_\_

If yes, please specify the nature of the work and dates performed on the back of this page. Conversion to European System / Removal of faulty check valve.

Print Name: John J. Genovesi  
Golf Course Superintendent  
Affiliation: Island Hills Golf Club

Signature: [Signature]  
Phone Number: (631) 589-3796



Telephone: (631) 475-1450  
Fax: (631) 475-1238  
Email: gmdege@optonline.net

## **G & M Dege, Inc.**

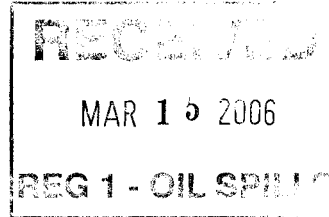
(Est. 1920)

- **SERVICE • MAINTENANCE • INSTALLATION**
- **Gasoline Pumps • Service Station Equipment • Compressors • Certified Tank / Line Testing**
- **Tank Installations • Lifts • Signs • Island Lighting • Environmental Testing**
- **Blacktop • Trenching**

**250 ORCHARD ROAD, EAST PATCHOGUE, NEW YORK 11772**

NYSDEC  
SUNY Bldg. 40  
Stony Brook NY 11790  
Attn: Hugh Cirrito

March 13, 2006



Dear Hugh,

This letter is in regards to the Island Hills Golf Club on Lakeland Ave. Sayville NY. We removed the existing angle check valve internal poppet and resealed angle check valve cap back on. The system now has only one check valve mounted internally in the Gasboy 1820 pump. This is now considered a "European system" and if the system runs out of product or the piping develops a leak, the system will not be able to prime itself.

If you have any further questions, please feel free to call.

Thank you,

  
Steve Mertens  
G & M Dege Inc.

Cc; Island Hills Golf Club

If solid rock, hardpan or water is encountered in any excavation, there will be an additional charge for it's removal





# NYSDEC SPILL REPORT FORM



DEC REGION: 1 SPILL NUMBER: 0511071  
SPILL NAME: ISLAND HILLS GOLF CLUB DEC LEAD: HMCIRRIT  
SPILL DATE: 12/21/2005 SPILL TIME: 1:00 pm  
CALL RECEIVED DATE: 12/21/2005 RECEIVED TIME: 2:52 pm

## SPILL LOCATION

PLACE: ISLAND HILLS GOLF CLUB COUNTY: Suffolk  
STREET: 458 LAKELAND AVENUE TOWN/CITY: Islip  
COMMUNITY: SAYVILLE  
CONTACT: JOHN CONTACT PHONE: (631) 445-7092

CONT. FACTOR: Other SPILL REPORTED BY: Tank Tester  
FACILITY TYPE: Commercial/Industrial WATERBODY:

### **CALLER REMARKS:**

SUFFOLK CTY #05-0623. 99% SURE THAT THE PRODUCT IS GOING BACK INTO THE TANK.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
Gasoline	Petroleum		0 G	Soil,

## POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
ISLAND HILLS GOLF CLUB	458 LAKELAND AVE SAYVILLE NY	JOHN GENOVESI
		(631) 445-7092

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure
----------	-----------	----------	-------	--------	-------------	-----------	---------------

### **DEC REMARKS:**

12/21/05 15:25 LEFT MESSAGE FOR STEVE-G&M DEGE, LINE TEST, BAD CHECK VALVE, DOES NOT BELIEVE THERE IS A SPILL, PLANS TO RETEST LINE

REPLACED CHECK VALVE, ACTUALLY FOUND SYSTEM TO HAVE 2 DO THEY REMOVED THE ONE AT THE TANK TOP

PIN

T & A

COST CENTER

CLASS: B3 CLOSE DATE: 03/21/2006 MEETS STANDARDS: False



**APPLICATION FOR PUBLIC ACCESS TO RECORDS**  
**Suffolk County Department of Health Services**

*For office use only*

Date:

Office(s):

Tracking #:

INSTRUCTIONS TO APPLICANT: Please complete Section I of this form. Do not leave any areas blank. Mail or fax a completed application to the Freedom of Information Officer listed below.

**SECTION I: To be completed by Applicant.**

Date of Application: 05/21/2018 Applicant Represents: PW Grosser Consulting  
Applicant's Name (Please print): Lisa Schreiner  
Applicant's Address: 630 Johnson Ave, Suite 7, Bohemia, NY 11716  
Applicant's Phone #: 631-589-6353 Applicant's Email: LSchreiner@pwgrosser.com  
Applicant's Signature: Lisa Schreiner Digitally signed by Lisa Schreiner  
Date: 2018.03.28 07:31:13 -0400

Describe the record sought and if in regard to a property include a **complete tax map number (District, Section, Block & Lot in the proper format)**. Supply all relevant information that will help locate the record desired: date(s), a file title, reference number, the physical address, and property type (commercial/residential/subdivision).

Any information pertaining to environmental records, easements, chemical storage and oil tanks at the properties:

458 Lakeland Avenue, Sayville.

Section 280, block 1, Lots 16, 15.1, 10, 4, 3, 2 and Section 257, Block 3, Lot 3

**I HEREBY APPLY TO:**

- ☐ Inspect the following record
- ☐ Receive a copy of the following document(s)

**PROVIDE REQUEST TO:**

Acting Freedom of Information Officer: Michelle Rosen  
Agency Name: Suffolk County Department of Health Services  
Address: 3500 Sunrise Highway, Suite 124  
Post Office Box 9006  
Great River, NY 11739-9006  
Fax #: 631-854-0156

**SECTION II - For use by Freedom of Information Officer (or designee) only**

- ☐ Approved. Call to arrange an appointment to inspect the requested record.  
Contact Person: \_\_\_\_\_ Phone #: \_\_\_\_\_
- ☐ Records not possessed or maintained by this agency.
- ☐ Records cannot be found after diligent search.
- ☐ Denied. Reason for denial: \_\_\_\_\_
- ☐ Document(s) enclosed as requested.
- ☐ Receipt of this request is acknowledged. There will be a delay in supplying the requested record until payment of reproduction fee is received. The following fee applies \$ \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

Signature: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

**Section III - Notice to applicant**

You have the right to appeal a denial of this application in writing to the Office of the County Attorney within 30 days of the denial. Information as to the person to contact is shown below. The contacted person must respond to you in writing within ten business days of receipt of your appeal.

Suffolk County Attorney  
H. Lee Dennison Bldg., 6th floor  
100 Veterans Memorial Highway  
Hauppauge, NY 11788  
Business Telephone: (631) 853-4049



**From:** [calderon.wanda@epa.gov](mailto:calderon.wanda@epa.gov)  
**To:** [lschreiner@pwgrosser.com](mailto:lschreiner@pwgrosser.com)  
**Subject:** FOIA Request EPA-R2-2018-007856 Submitted  
**Date:** Monday, May 21, 2018 2:10:43 PM

---

This message is to confirm your request submission to the FOIAonline application: [View Request](#). Request information is as follows:

- Tracking Number: EPA-R2-2018-007856
- Requester Name: Lisa Schreiner
- Date Submitted: 05/21/2018
- Request Status: Submitted
- Description: Any information pertaining to environmental records, easements, chemical storage and oil tanks at the property: 458 Lakeland Avenue, Sayville. Section 280, block 1, Lots 16, 15.1, 10, 4, 3, 2. Section 257, Block 3, Lot 3



**Appendix B-2**  
**Phase 2 ESA/Pesticide Sampling Report**

PWGC

*July 2018*



FORMER ISLAND HILLS GOLF COURSE

458 LAKE LAND AVENUE

SAYVILLE, NY

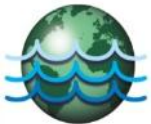
TAX MAP ID: DISTRICT 500, SECTION 280, BLOCK 1, LOTS 16, 15.1,  
10, 4, 3, 2 AND SECTION 257, BLOCK 3, LOT 3

**PHASE II**  
**ENVIRONMENTAL SITE ASSESSMENT**  
**(ASTM 1903-11)**

**PREPARED FOR:**

385 IH, LLC  
85 South Service Road  
Plainview, NY 11803

**PREPARED BY:**



P.W. Grosser Consulting, Inc.  
630 Johnson Avenue, Suite 7  
Bohemia, New York 11716  
Phone: 631-589-6353  
Fax: 631-589-8705

Jennifer Lewis, PG, Senior Project Manager  
James P. Rhodes, PG, Chief Operating Officer

[JenniferL@pwgrossex.com](mailto:JenniferL@pwgrossex.com)  
[JimR@pwgrossex.com](mailto:JimR@pwgrossex.com)

PWGC Project Number: RSL1801

**JULY 2018**



**PHASE II ENVIRONMENTAL SITE ASSESSMENT  
FORMER ISLAND HILLS GOLF COURSE  
458 LAKELAND AVENUE, SAYVILLE, NY**

<b>TABLE OF CONTENTS</b>	<b>PAGE</b>
1.0 INTRODUCTION .....	1
2.0 BACKGROUND .....	2
2.1 Site Description and Features .....	2
2.2 Physical Setting .....	2
2.3 Site History and Land Use .....	2
2.4 Adjacent Property Land Use .....	2
2.5 Phase I ESA - 2018 .....	2
3.0 WORK PERFORMED AND RATIONALE .....	4
3.1 Scope of Assessment.....	4
3.2 Shallow Soils.....	4
3.2.1 Soil Sampling Protocol.....	5
3.2.2 Sample Collection Protocol .....	6
3.2.3 Soil Analytical Result Comparisons.....	6
3.2.4 Analytical Results – Greens .....	7
3.2.5 Analytical Results – Tee Boxes.....	8
3.2.6 Analytical Results – Fairways.....	9
3.2.7 Analytical Results – Driving Range.....	10
3.2.8 Analytical Results – Rough.....	10
3.2.9 Analytical Results – Woods.....	11
3.3 Deep Soils.....	12
3.3.1 Soil Boring Protocol .....	12
3.3.2 Sample Collection Protocol .....	13
3.3.3 Soil Analytical Result Comparisons.....	13
3.3.4 Soil Analytical Results – Deep Soils.....	13
3.4 Groundwater Quality Evaluation .....	14
3.4.1 Monitoring Well Installation Protocol.....	14
3.4.2 Groundwater Sampling Collection Protocol.....	15
3.4.3 Groundwater Analytical Results .....	16
4.0 CONCLUSIONS AND RECOMMENDATIONS .....	17
4.1 Conclusions .....	17
4.2 Recommendations .....	17
5.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL .....	18
6.0 REFERENCES .....	19
7.0 LIMITATIONS .....	20



**PHASE II ENVIRONMENTAL SITE ASSESSMENT  
FORMER ISLAND HILLS GOLF COURSE  
458 LAKELAND AVENUE, SAYVILLE, NY**

**FIGURES**

---

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Sampling Locations
Figure 4A	Shallow Soil Sample Locations
Figure 4B	Shallow Soil Sample Exceedances – Greens and Tee Boxes
Figure 4C	Shallow Soil Sample Exceedances – Fairways
Figure 4D	Shallow Soil Sample Exceedances – Rough and Woods
Figure 5	Groundwater Exceedances

**TABLES**

---

Table 1	Shallow Soil Sample Analytical Results – Greens (Metals, Pesticides, Herbicides)
Table 2	Shallow Soil Sample Analytical Results – Greens (VOCs)
Table 3	Shallow Soil Sample Analytical Results – Greens (SVOCs)
Table 4	Shallow Soil Sample Analytical Results – Greens (PCBs)
Table 5	Shallow Soil Sample Analytical Results – Tee Boxes (Metals, Pesticides, Herbicides)
Table 6	Shallow Soil Sample Analytical Results – Tee Boxes (VOCs)
Table 7	Shallow Soil Sample Analytical Results – Tee Boxes (SVOCs)
Table 8	Shallow Soil Sample Analytical Results – Tee Boxes (PCBs)
Table 9	Shallow Soil Sample Analytical Results – Fairways (Metals, Pesticides, Herbicides)
Table 10	Shallow Soil Sample Analytical Results – Fairways (VOCs)
Table 11	Shallow Soil Sample Analytical Results – Fairways (SVOCs)
Table 12	Shallow Soil Sample Analytical Results – Fairways (PCBs)
Table 13	Shallow Soil Sample Analytical Results – Driving Range (Metals, Pesticides, Herbicides)
Table 14	Shallow Soil Sample Analytical Results – Rough (Metals, Pesticides, Herbicides)
Table 15	Shallow Soil Sample Analytical Results – Woods (Metals, Pesticides, Herbicides)
Table 16	Shallow Soil Sample Analytical Results – Woods (VOCs)
Table 17	Shallow Soil Sample Analytical Results – Woods (SVOCs)
Table 18	Shallow Soil Sample Analytical Results – Woods (PCBs)
Table 19	Deep Soil Sample Analytical Results – (Metals, Pesticides, Herbicides)
Table 20	Deep Soil Sample Analytical Results – (VOCs)
Table 21	Deep Soil Sample Analytical Results – (SVOCs)
Table 22	Deep Soil Sample Analytical Results – (PCBs)
Table 23	Groundwater Field Data Summary
Table 24	Groundwater Analytical Data Summary – (VOCs)
Table 25	Groundwater Analytical Data Summary – (SVOCs)
Table 26	Groundwater Analytical Data Summary – Metals (Total and Dissolved)
Table 27	Groundwater Analytical Data Summary – (Pesticides, Herbicides, Nitrogen Series)

**APPENDICES**

---

Appendix A	Soil Boring Logs
Appendix B	Laboratory Analytical Reports
Appendix C	Monitoring Well Construction Logs
Appendix D	Monitoring Well Sampling Logs



<b>ACRONYM</b>	<b>DEFINITION</b>
ASP	Analytical Services Protocol
ASTM	American Society for Testing and Materials
CFR	Code of Federal Regulations
DER	Department of Environmental Remediation
ELAP	Environmental Laboratory Approval Program
EM	Electromagnetic
ESA	Environmental Site Assessment
GQS	Groundwater Quality Standard
GV	Guidance Value
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCB	Polychlorinated Biphenyl
PID	Photo-ionization Detector
PWGC	P.W. Grosser Consulting, Inc.
QA/QC	Quality Assurance / Quality Control
REC	Recognized Environmental Condition
SCO	Soil Cleanup Objective
SVOC	Semi-volatile Organic Compound
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound



## **1.0 INTRODUCTION**

385 IH, LLC (Client) retained P.W. Grosser Consulting, Inc. (PWGC) to prepare a Phase II Environmental Site Assessment (ESA) for the property located at 458 Lakeland Avenue in Sayville, NY, known as the Former Island Hills Golf Course. The purpose of the Phase II ESA was to evaluate surface and subsurface conditions at the property related to its use as a golf course to obtain sound, scientifically valid data concerning actual property conditions.

Work was conducted in accordance with the American Society for Testing and Materials (ASTM) Standard E 1903-11 (Standard Practices for Environmental Site Assessment: Phase II Environmental Site Assessment Process) and in substantial conformance with the New York State Department of Environmental Conservation's (NYSDEC's) Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation, May 2010 (DER-10).



## **2.0 BACKGROUND**

### **2.1 Site Description and Features**

The subject property consists of seven parcels located at 458 Lakeland Avenue in Sayville, New York. The site is located in Suffolk County. The property is identified in the Suffolk County Tax Map as District 500, Section 280, Block 1, Lots 16, 15.1, 10, 4, 3, 2 and Section 257, Block 3, Lot 3.

A Site Location Map is included as **Figure 1** and a Site Plan is included as **Figure 2**.

### **2.2 Physical Setting**

The topography of the site and surrounding area was reviewed from the USGS 7.5-minute series topographic map for the Patchogue, New York quadrangle. The property elevation ranges between approximately 30 and 40 feet above the National Geodetic Vertical Datum (NGVD).

### **2.3 Site History and Land Use**

The subject property was first developed around 1927 as a golf course and has operated as such until approximately 2015. During a portion of World War II, the golf course was temporarily shut down and the site was used as a paratrooper training landing zone.

### **2.4 Adjacent Property Land Use**

The neighboring properties consist predominantly of single family residential houses and an apartment complex.

### **2.5 Phase I ESA - 2018**

PWGC prepared a Phase I ESA for the subject property in June 2018. The property consists of the golf course and the following buildings:

- Island Hills Golf Club club house (club house)
- The south maintenance building (SMB)
- The central maintenance building (CMB)
- A pro-shop / golf cart storage building
- A pool house
- Two single family houses

The Phase I ESA identified the following recognized environmental conditions (RECs):

- The site has a long history of being an active golf course. Chemicals such as pesticides, herbicides, and fertilizers have been used at the site; the majority of the chemical storage and mixing was conducted by



the South Maintenance Building. Samples from previous site assessments reveal that the surface soils are impacted with metals and pesticides, predominantly mercury, chlordane, and heptachlor epoxide. Debris piles and mounds of soil were historically observed and sampled. During the recent site inspection, these piles and mounds were not identified; however, the presence of overgrown vegetation may have made inspection of these piles difficult. As the property no longer operates as a golf course and redevelopment of the property is contemplated, these conditions represent a REC.

- Three aboveground storage tanks (ASTs) were identified at the site: one 275 gallon AST located in the basement of each residential house and one 550 gallon AST located adjacent to the Pro-Shop and in direct contact with the soil. The ASTs were in varying conditions from good to fair and there was no evidence of leaks from the ASTs. The ASTs are still partially full of liquids and over time, the ASTs, without proper maintenance may fail. The presence of these ASTs represents a REC.
- Several of the onsite sanitary and stormwater systems were successfully remediated in 2007 and in 2015. The golf course ceased operations shortly after the 2015 remediation, so the structures remediated in 2015 are unlikely to be impacted; however, a significant amount of time has passed since the 2007 remediation occurred of the structures in the club house parking lot. Continued use after the remediation may have resulted in additional impact to that system; therefore, the presence of the sanitary and stormwater drains in the parking lot of the club house and the two stormwater drains on the course represent a REC.
- The subject property is identified as a NYSPILLS site. Spill number 05-11071 was opened on December 12, 2005, due to a bad check valve observed during a tank test. No contamination was found, the check valve was replaced, and the tank passed a new test. The NYSDEC closed spill number 05-11071 on March 21, 2006; therefore, this represents a historic REC (HREC).



### **3.0 WORK PERFORMED AND RATIONALE**

#### **3.1 Scope of Assessment**

The scope of this environmental assessment was divided into three segments: evaluation of shallow soils, evaluation of deep soils, and evaluation of groundwater. PWGC utilized prior experience of performing environmental investigations at golf courses and agricultural properties to identify a sampling frequency appropriate for the subject property. Sampling was conducted between May 17 and June 15, 2018. The locations of the shallow soil borings, deep soil borings, and groundwater monitoring wells are shown on **Figure 3** which is overlain with an aerial image of the golf course.

This Phase II ESA is limited to the area of the golf course and does not include the on-site buildings or parking lots. The RECs associated with the ASTs and UICs will be addressed at a later time as a part of redevelopment of the property. No additional effort is necessary to address the HREC associated with the historic spill as the spill has been closed.

#### **3.2 Shallow Soils**

To characterize shallow soil quality, soil borings were installed throughout the golf course portion of the subject property. The golf course is approximately 113 acres and the greens, tee boxes, and fairways constitute approximately 30 acres of the property. Typically, golf course maintenance chemicals, such as pesticides and fungicides, are used most on the greens and the tee boxes, with relatively moderate use on the fairways, and little to no use in the rough and woods. Based upon this, PWGC biased the shallow soil sampling towards the areas expected to have the most impact, specifically the greens, tee boxes, and fairways at a frequency of one soil boring per acre, while also collecting samples across the remainder of the site to evaluate the overall soil quality at a frequency of one soil boring per four acres.

In addition to the placement of the sample locations, sampling depth was considered. The mobility of many pesticides and metals in soil is typically low; therefore, most of the sampling was conducted in the shallow 3 inches of soil beneath the vegetative layer with deeper samples collected from the 18 to 24 inch interval in approximately 25% of the borings.

Based upon the initial analytical results obtained from this sampling frequency and to further investigate the tee boxes that may have been re-worked several times over the decades to change the difficulty level of the hole, PWGC conducted a second round of sampling which consisted of deeper sampling of some of the borings within the greens and tee boxes, installing additional shallow samples in tee boxes, installing step-out borings in the



greens around the three samples that contained the highest degree of impact, and installing additional shallow borings within the woods along the perimeter of the subject property to evaluate the soil quality bordering the residential neighborhood.

A total of 77 shallow soil borings were installed during the investigation. Shallow soil boring locations are illustrated on **Figure 4A** which contains a colorized rendition of the golf course by location type with estimated acreage of the following location types: green, tee box, fairway, driving range, rough, woods, or non-golf course/impervious areas.

### 3.2.1 Soil Sampling Protocol

PWGC utilized a stainless-steel hand auger to install the environmental soil borings. The hand auger was properly decontaminated at the beginning of each day and between each sample collection using a laboratory-grade detergent and tap water scrub to remove visual soil, then a tap water rinse, followed by a distilled water rinse.

Initially, the vegetative layer was removed and then soils were collected continuously from ground surface to an approximate depth of 24 inches below surface grade. The soil was screened for the presence of volatile organic vapors, which are commonly associated with petroleum products and industrial solvents, utilizing a photoionization detector (PID). PID results were 0.0 parts per million (ppm) for each sample collected. Shallow soils across the site generally consisted of:

Boring Depth	Soil Description
0 to 18 inches	Brown fine to medium grained sands with some gravel up to 0.5 inches in diameter
18 to 19 inches	Dark brown, silty clay
19 to 24 inches	Yellowish tan medium to coarse grained sands with some gravel up to 0.5 inches in diameter
24 to 42 inches	Yellowish tan medium to coarse grained sands with gravel measuring 1 to 3 inches in diameter

During the initial sampling collection between May 17 and May 21, 2018 samples from 0 to 3 inches and 18 to 24 inches were collected from each boring location. Each of the samples from 0 to 3 inches were analyzed and a percentage of samples from 18 to 24 inches were automatically analyzed. For the samples from 18 to 24 inches that were placed on hold at the laboratory, the determination to analyze them and what to analyze them for was based upon an evaluation of the results from 0 to 3 inches in the same boring.

Samples collected for volatile organic analysis were collected directly from the hand auger utilizing terra-core sampling devices. The remaining sample volumes were transferred to a stainless-steel bowl and homogenized.



Once homogenized, samples were transferred to laboratory supplied glassware and packed in a cooler with ice and shipped under proper chain-of-custody procedures to Test America Laboratories, Inc. (Test America), a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory with NYSDEC Analytical Services Protocol (ASP)-Category A Deliverables.

Between each sample collection, the mixing bowl was decontaminated in the same manner as the hand auger.

In June 2018, additional samples were collected to supplement the existing data from May which included sampling additional locations in the greens, tee boxes, and woods, and sampling at deeper depths (30 to 36 inches and 36 to 42 inches) in the greens and tee boxes based upon concentrations observed in the 18 to 24 inch interval. Additional samples were only analyzed for the contaminants of concern (COCs) determined by an evaluation of the initial analytical results.

### *3.2.2 Sample Collection Protocol*

Golf courses and agricultural sites have historically been identified as containing elevated levels of pesticides, herbicides, and metals; therefore, the majority of the initial samples were analyzed for:

- Herbicides (Silvex) by United States Environmental Protection Agency (USEPA) Method 8151B
- Organochlorine Pesticides by USEPA Method 8081B
- Metals by USEPA Methods 6010C/7471B

To determine overall soil quality, approximately 25% of the initial samples were also analyzed for:

- Volatile Organic Compounds (VOCs) by USEPA Method 8260C
- Semi-Volatile Organic Compounds (SVOCs) by USEPA Method 8270D
- Polychlorinated Biphenyls (PCBs) by USEPA Method 8082A

Following receipt of the initial analytical results, further sampling was limited to COCs in a specific boring or location type which typically included the metals mercury, cadmium, chromium, and arsenic and the pesticides chlordane and heptachlor epoxide. Ultimately, each soil sample collected was analyzed for mercury as it occurred in the highest frequency.

### *3.2.3 Soil Analytical Result Comparisons*

Soil analytical results were compared to the NYSDEC's Title 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 and Final Commissioner Policy, CP-51 Soil Cleanup Objectives (SCOs) for Unrestricted Use (UUSCOs),



Protection of Groundwater (PGSCOs), and Restricted Residential (RRSCOs). Restricted Residential is defined in Part 375 as the land use category where there is common ownership or a single owner/managing entity of the site. As per Part 375, the RRSCO and PGSCOs for mercury are the lower values of elemental mercury or inorganic mercury. Elemental mercury is unlikely to have been used at the site as, according to the USEPA, elemental mercury is typically found in mercury, silver, or gold mines, novelty jewelry, dental fillings, some cosmetics, and instruments and equipment such as old thermometers and switches. The RRSCO (5.8 mg/kg) and PGSCO (not established) from the NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objectives Technical Support Document (Tables 5.6-1 and 7-2) for inorganic mercury were used for comparison purposes.

### *3.2.4 Analytical Results – Greens*

A total of 10 greens were sampled with a total of 60 samples analyzed. Analytical results are displayed on **Tables 1** through **4** and a spider diagram containing the sample locations within the greens and concentrations exceeding RRSCO are included on **Figure 4B**.

Mercury was detected in each sample with 56 samples exceeding the mercury UUSCO of 0.18 mg/kg and 22 samples exceeding the RRSCO of 5.8 mg/kg. The maximum mercury concentration was 44.4 mg/kg in a sample from 0 to 3 inches. Each of the RRSCO exceedances occurred in the 0 to 3 inch or 18 to 24 inch samples; the samples collected from 30 to 36 inches and 36 to 42 inches were less than the RRSCO for mercury. PWGC selected the three samples from the greens that contained the highest concentration of mercury in the 0 to 3 inch interval (SS-015, SS-019, and SS-026) and conducted step-out borings approximately 5 feet away from the original sample location to the north, east, south, and west. The concentrations obtained from the step-out borings indicate that mercury concentrations do not appear to be consistent across the individual greens in the 0 to 3 inch interval; however, concentrations generally decreased with depth similar to the other samples analyzed.

Cadmium was detected in six samples in the 0 to 3 inch interval at concentrations greater than its RRSCO of 4.3 mg/kg with the maximum concentration detected at 7.3 mg/kg; samples collected from the 18 to 24 inch interval were less than UUSCOs. Chromium and lead were detected in several samples in the 0 to 3 inch interval and arsenic was detected in one sample in the 18 to 24 inch interval at concentrations exceeding their respective UUSCOs; the maximum concentration of chromium detected was 71.7 mg/kg (RRSCO is 180 mg/kg), the maximum concentration of arsenic detected was 14.8 mg/kg (RRSCO is 16 mg/kg), and the maximum concentration of lead detected was 74.6 mg/kg (RRSCO is 400 mg/kg). The remaining metals were less than UUSCOs, PGSCOs, and RRSCOs.



Four pesticides were detected at concentrations exceeding SCOs: beta-BHC, chlordane, and heptachlor epoxide. Beta-BHC exceedances were detected in two samples, both from the 0 to 3 inch interval, with a maximum concentration of 0.15 mg/kg, exceeding the PGSCO of 0.09 mg/kg. Heptachlor epoxide exceedances were detected in twelve samples, typically in the 0 to 3 inch and 18 to 24 inch intervals in the same boring, with a maximum concentration of 0.98 mg/kg, exceeding the PGSCO of 0.02 mg/kg. Chlordane exceedances were detected in eighteen samples, each exceeding the RRSCO of 4.2 mg/kg in the 0 to 3 inch interval and decreasing to levels that exceeded the UUSCO of 0.094 mg/kg in the 18 to 24 inch interval, but were less than the RRSCO. The maximum chlordane concentration detected was 36 mg/kg.

Eleven samples from the greens were analyzed for herbicides and each was non-detect. Two samples from the greens were analyzed for VOCs, SVOCs, and PCBs, both were non-detect or concentrations were less than UUSCOs, PGSCOs, or RRSCOs.

### *3.2.5 Analytical Results – Tee Boxes*

A total of 14 tee boxes were sampled with a total of 33 samples analyzed. Analytical results are displayed on **Tables 5** through **8** and a spider diagram containing the sample locations within the tee boxes and concentrations exceeding RRSCOs are included on **Figure 4B**.

Mercury was detected in each sample with 29 samples exceeding the mercury UUSCO of 0.18 mg/kg and 6 samples exceeding the RRSCO of 5.8 mg/kg. The maximum mercury concentration was 17.9 mg/kg in a sample from 18 to 24 inches. Each of the RRSCO exceedances occurred in the 0 to 3 inch or 18 to 24 inch samples; the samples collected from 30 to 36 inches and 36 to 42 inches were less than the RRSCO for mercury. In general, mercury concentrations observed in the tee boxes were similar in magnitude as to those observed in the greens, but concentrations greater than the RRSCO were less widespread. Mercury concentrations also generally decreased with depth as was observed in the samples from the greens.

Arsenic was detected in one tee box sample at a concentration of 25.9 mg/kg, which is greater than its RRSCO of 16 mg/kg, at a depth of 18 to 24 inches. The samples collected from 0 to 3 inches and 30 to 36 inches from the same boring contained arsenic concentrations of 3.2 mg/kg and 1.3 mg/kg, respectively, which are less than the UUSCO of 13 mg/kg. Chromium was also detected at concentrations exceeding its respective UUSCO; the maximum concentration of chromium detected was 44.2 mg/kg (RRSCO is 180 mg/kg). The remaining metals were less than UUSCOs, PGSCOs, and RRSCOs.



Six pesticides were detected at concentrations exceeding UUSCOs and/or PGSCO, there were no exceedances of RRSCO. The compounds with exceedances included 4,4-DDE (maximum concentration of 0.13 mg/kg), 4,4-DDT (maximum concentration of 0.11 mg/kg), beta-BHC (maximum concentration of 0.3 mg/kg), chlordane (maximum concentration of 3.7 mg/kg), dieldrin (maximum concentration of 0.017 mg/kg), and heptachlor epoxide (maximum concentration of 0.12 mg/kg). Generally, the highest concentrations were detected in the 0 to 3 inch interval and concentrations decreased in the 18 to 24 inch interval.

Eight samples from the tee boxes were analyzed for herbicides and each was non-detect. One sample from the tee boxes was analyzed for VOCs, SVOCs, and PCBs, which was non-detect or concentrations were less than UUSCOs, PGSCO, or RRSCO.

### *3.2.6 Analytical Results – Fairways*

A total of 13 fairways were sampled with a total of 28 samples analyzed (one fairway was sampled twice in different locations for a total of 14 borings). Analytical results are displayed on **Tables 9** through **12** and a spider diagram containing the sample locations within the fairways and concentrations exceeding RRSCO are included on **Figure 4C**.

Mercury was detected in each sample with 19 samples exceeding the mercury UUSCO of 0.18 mg/kg and 2 samples exceeding the RRSCO of 5.8 mg/kg. The maximum mercury concentration was 9.5 mg/kg. Each of the RRSCO exceedances occurred in the 0 to 3 inch samples; the samples collected from 18 to 24 inches were less than the UUSCO for mercury. In each boring, the mercury concentration decreased from the 0 to 3 inch interval to the 18 to 24 inch interval, except in one boring where both concentrations were less than the UUSCO. In general, mercury concentrations observed in the fairways were less than those observed in the greens and tee boxes which is consistent with the greens and tee boxes receiving the most chemical treatment on the golf course.

Chromium was detected at concentrations exceeding its respective UUSCO in 9 of the 28 samples; the maximum concentration of chromium detected was 52.6 mg/kg (RRSCO is 180 mg/kg). The remaining metals were less than UUSCOs, PGSCO, and RRSCO.

Five pesticides were detected at concentrations exceeding UUSCOs and/or PGSCO, there were no exceedances of RRSCO. The compounds with exceedances included 4,4-DDE (maximum concentration of 0.015 mg/kg), 4,4-



DDT (maximum concentration of 0.17 mg/kg), chlordane (maximum concentration of 3.1 mg/kg), dieldrin (maximum concentration of 0.026 mg/kg), and heptachlor epoxide (maximum concentration of 0.34 mg/kg). Generally, the highest concentrations were detected in the 0 to 3 inch interval and concentrations decreased in the 18 to 24 inch interval.

Seventeen samples from the fairways were analyzed for herbicides and each was non-detect. One sample from the fairways was analyzed for VOCs, SVOCs, and PCBs, which was non-detect or concentrations were less than UUSCOs, PGSCOs, or RRSCOs.

### *3.2.7 Analytical Results – Driving Range*

One soil boring was conducted in the driving range and a total of two samples were analyzed. Analytical results are displayed on **Table 13** and a spider diagram containing the sample locations within the driving range (identified as hole 19) and concentrations exceeding RRSCOs are included on **Figure 4C**. There were no exceedances of RRSCOs in the driving range to include on the figure.

Mercury was detected both samples; in the shallow sample from 0 to 3 inches with a concentration of 0.86 mg/kg exceeding the UUSCO and in the deeper sample from 18 to 24 inches with a concentration of 0.073 mg/kg less than the UUSCO. The mercury concentrations observed in the driving range were similar to or less than the majority of the samples collected from the fairways. Based upon the usage of the driving range, it likely received similar or less chemical treatment as the fairways.

The remaining metals were less than UUSCOs, PGSCOs, and RRSCOs.

Pesticides and herbicides were non-detect. Samples were not collected for VOCs, SVOCs, or PCBs in the driving range.

### *3.2.8 Analytical Results – Rough*

A total of 9 areas in the rough were sampled with a total of 12 samples analyzed. Analytical results are displayed on **Table 14** and a spider diagram containing the sample locations within the rough is included on **Figure 4D**. There were no exceedances of RRSCOs to include on the figure.

Mercury was detected in each sample with 3 samples exceeding the mercury UUSCO of 0.18 mg/kg and no samples exceeding the RRSCO of 5.8 mg/kg. The maximum mercury concentration was 3.0 mg/kg in a sample



collected in the 0 to 3 inch interval; the sample collected from 18 to 24 inches in the same boring decreased to 0.25 mg/kg.

The remaining metals were less than UUSCOs, PGSCO, and RRSCO.

Three pesticides were detected at concentrations exceeding UUSCOs and/or PGSCO, there were no exceedances of RRSCO. The compounds with exceedances included 4,4-DDT (maximum estimated concentration of 0.0038 µg/kg), chlordane (maximum concentration of 1.7 µg/kg), and heptachlor epoxide (maximum concentration of 0.053 µg/kg).

Herbicides were non-detect. Samples were not collected for VOCs, SVOCs, or PCBs in the rough.

### 3.2.9 Analytical Results – Woods

A total of 17 areas in the woods were sampled with a total of 19 samples analyzed. Initially, a total of 9 soil borings were conducted in the woods; however, additional sampling was conducted in the woods along the perimeter of the site for mercury and pesticides only to evaluate the soil quality bordering the residential neighborhood. Analytical results are displayed on **Tables 15** through **18** and a spider diagram containing the sample locations within the woods is included on **Figure 4D**. There were no exceedances of RRSCO to include on the figure.

Mercury was detected in 18 samples with 5 samples exceeding the mercury UUSCO of 0.18 mg/kg and no samples exceeding the RRSCO of 5.8 mg/kg. The maximum mercury concentration was 0.35 mg/kg. Each of the UUSCO exceedances occurred in the 0 to 3 inch samples; the samples collected from 18 to 24 inches were less than the UUSCO for mercury.

The remaining metals were less than UUSCOs, PGSCO, and RRSCO.

Four pesticides were detected at concentrations exceeding UUSCOs, there were no exceedances of PGSCO or RRSCO. The compounds with exceedances included 4,4-DDE (maximum concentration of 0.013 mg/kg), 4,4-DDT (maximum concentration of 0.059 mg/kg), chlordane (maximum concentration of 0.28 mg/kg), and dieldrin (maximum concentration of 0.0076 mg/kg).



Nine samples from the woods were analyzed for herbicides and each was non-detect. Three samples from the woods were analyzed for VOCs, SVOCs, and PCBs, which were non-detect or concentrations were less than UUSCOs, PGSCO, or RRSCO.

The quality of the soil along the perimeter of the property bordering the residential neighborhood revealed detections of mercury, 4,4-DDT, chlordane, and dieldrin at concentrations exceeding their respective UUSCOs, but significantly less than PGSCO and RRSCO. The concentrations detected are typical of residentially developed areas.

### **3.3 Deep Soils**

#### *3.3.1 Soil Boring Protocol*

Coastal Environmental Solutions, Inc. of Medford, NY provided environmental drilling services during the deep soil boring investigation. A Geoprobe 6610 was utilized to install the environmental soil borings. Prior to performing each soil boring, a 1 foot by 1 foot area of the vegetative layer was removed and a section of 10-mil polyethylene sheeting with a hole in the middle was placed down at the boring location to prevent run-off from the rain from entering the soil borings. The deep soil borings were conducted on May 17, 2018 in five separate fairways; locations are illustrated on **Figure 3**.

Soils were collected continuously from ground surface until groundwater was encountered. The depth to groundwater varied across the site between approximately 8 feet and 23 feet based upon local topography.

The soil cores were placed on a plastic table in the order they came out of the ground. The acetate liners were cut open and the soil core was screened with the PID. PID readings of 0.0 ppm were recorded for each boring. Each soil core was classified by a hydrogeologist using the Unified Soil Classification System (USCS). A soil boring log was developed for each location (**Appendix A**) and includes the characterization and screening data. Soils generally consisted of medium to coarse grained sands, light brown at shallower depths and yellowish tan at deeper depths, and an increase in the percentage and size of gravel with depth.

The macrocores were properly decontaminated at the beginning of the day and between each sample collection using a laboratory-grade detergent and tap water scrub to remove visual soil, then a tap water rinse, followed by a distilled water rinse.



### 3.3.2 Sample Collection Protocol

Evidence of impact was not observed in any of the five borings; therefore, sample depths were varied across the site to generally characterize soils across the site and to represent the entire soil column from 2 feet below grade to the groundwater table. Samples were collected a minimum of 2 feet below grade surface and a minimum of 2 feet above the water table.

Boring ID	Total Depth	Depth to Water in Boring	Sample Depth
SB-001	20 feet	18 feet	11 to 13 feet
SB-002	20 feet	8 feet	6 to 8 feet
SB-003	25 feet	23 feet	8 to 10 feet
SB-004	25 feet	23 feet	2 to 4 feet 20 to 22 feet
SB-005	10 feet	8 feet	2 to 4 feet

Samples were analyzed for the following chemical analyses:

- Herbicides (Silvex) by USEPA Method 8151B
- Organochlorine Pesticides by USEPA Method 8081B
- Metals by USEPA Methods 6010C/7471B
- VOCs by USEPA Method 8260C
- SVOCs by USEPA Method 8270D
- PCBs by USEPA Method 8082A

Samples collected for volatile organic analysis were collected directly from the acetate liners utilizing terra-core sampling devices. The remaining sample volumes were transferred to a stainless-steel bowl and homogenized. Once homogenized, samples were transferred to laboratory supplied glassware and packed in a cooler with ice and shipped under proper chain-of-custody procedures to Test America with NYSDEC Analytical Services Protocol (ASP)-Category A Deliverables.

### 3.3.3 Soil Analytical Result Comparisons

Soil analytical results were evaluated using the same procedure as detailed in Section 3.2.3.

### 3.3.4 Soil Analytical Results – Deep Soils

Analytical results are detailed in **Tables 19** through **22** and the complete laboratory analytical report is included in **Appendix B**.



Mercury was non-detect in 5 of the 6 samples. One sample, SB-004 in the 2 to 4 foot interval, had an estimated concentration of 0.013 mg/kg which is less than the UUSCO of 0.18 mg/kg for mercury. The remaining metals concentrations were also less than UUSCO.

One sample, SB-005 from 2 to 4 feet, contained a concentration of acetone (0.059 mg/kg) greater than the UUSCO and PGSCO of 0.05 mg/kg. Acetone was detected in each of the six samples and is a common laboratory contaminant. As SB-005 is located in a fairway along the northern portion of the site, it is unlikely that a source of acetone impact is present; therefore, the elevated result is likely due to laboratory contamination.

Herbicides, pesticides, SVOCs, and PCBs were non-detect in each of the samples.

Deep soils across the site, from 2 feet below grade to the groundwater table, are expected to meet UUSCOs with the exception of soils beneath the greens and tee boxes.

### 3.4 Groundwater Quality Evaluation

To characterize groundwater quality, six monitoring wells were installed throughout the subject property and groundwater samples were collected. Monitoring well locations were chosen to generally characterize the site and also the area hydraulically down-gradient of the former chemical storage and mixing area located at the SMB. Monitoring well locations are illustrated on **Figure 5**.

#### 3.4.1 Monitoring Well Installation Protocol

Monitoring wells were installed by Coastal Environmental Solutions, Inc. of Medford, NY. A Geoprobe 6610 was utilized to install 2 inch diameter pre-pack monitoring wells. The monitoring wells were constructed of 10 feet of screen set approximately 5 feet into the groundwater table, riser to approximately 1 to 3 feet above grade, and were capped with J-plugs. The table below details the screened interval for each well. The annulus around each monitoring well was filled with #2 Filpro sand, a bentonite seal, and additional #2 sand to grade. Monitoring well construction logs are included as **Appendix C**.

Well ID	Screened Interval
MW-001	9 to 19 feet
MW-002	20 to 30 feet
MW-003	20 to 30 feet
MW-004	20 to 30 feet
MW-005	18 to 28 feet
MW-006	5 to 15 feet



Following well installation, the monitoring wells were developed by surging and overpumping the wells to reduce the future turbidity of the water by removing sediments.

#### *3.4.2 Groundwater Sampling Collection Protocol*

PWGC returned on May 23, 2018 to gauge and sample the monitoring wells. Groundwater monitoring of the wells consisted of collecting and recording depth to water, depth to light non-aqueous phase liquid (LNAPL) if applicable, and total well depth measurements for the six groundwater monitoring wells at the site. Water levels were collected using a Solinst Oil / Water Interface Probe or equivalent which was decontaminated between each well. LNAPL was not detected in any of the monitoring wells. Groundwater field data is detailed on **Table 23**.

A survey of the monitoring wells has not yet been completed. Groundwater is estimated to flow towards the south based upon the United States Geological Survey (USGS) Groundwater Conditions on Long Island, New York in 2013 map.

Following the well gauging, wells were purged using a decontaminated submersible pump fitted with disposal polyethylene tubing. During purging, the groundwater parameters pH, temperature, conductivity, oxygen reduction potential (ORP), turbidity, and dissolved oxygen were recorded with a Horiba U52 water quality instrument. When purging was complete, the Horiba was disconnected and the groundwater sample was collected directly from the downhole tubing and placed in pre-cleaned laboratory-supplied glassware and stored in a cooler on ice for transport to Test America. Copies of the groundwater sampling data sheets containing the field parameters recorded and purge volumes for each sampling point are attached in **Appendix D**.

Groundwater samples were analyzed for the following:

- Herbicides (Silvex) by USEPA Method 8151A
- Organochlorine Pesticides by USEPA Method 8081B
- Metals (total and dissolved) by USEPA Methods 6020A/7470A
- VOCs by USEPA Method 8260C
- SVOCs by USEPA Method 8270D

Groundwater sampling and monitoring equipment was decontaminated between each monitoring well. Non-disposable sampling equipment was decontaminated using a laboratory-grade detergent and tap water scrub to



remove visual contamination, then a tap water rinse, followed by a distilled water rinse prior to the collection of each sample. Disposable sampling equipment was replaced between each monitoring well.

#### *3.4.3 Groundwater Analytical Results*

Groundwater analytical results were compared to NYSDEC groundwater quality standards (GQS) / guidance values (GVs) specified in 6 NYCRR Part 703.

VOCs were non-detect for each groundwater sample collected, with the exception of acetone which was detected in each well. As previously discussed, acetone is a common laboratory contaminant and there is no known source of acetone at the subject property.

SVOCs, pesticides, and herbicides were non-detect in each of the samples.

Mercury was non-detect in each of the samples. Three metals were detected in groundwater samples at concentrations exceeding their respective GQS: iron, manganese, and sodium. These three metals are naturally occurring metals typically identified in groundwater samples on Long Island and are not associated with any known spills or sources of impact at the site and are unlikely to be the result of operations at the former golf course.

The nitrogen series analytes (ammonia, total Kjeldahl nitrogen, nitrate, nitrite, and nitrate nitrite) were analyzed from each of the monitoring wells. There were no exceedances of GQS. The highest concentration of nitrate was observed in MW-006 which is located hydraulically up-gradient of the majority of the site and is also the shallowest well with groundwater encountered at approximately 9 feet below the top of the well casing (approximately 6 feet below grade).

MW-004 is the groundwater sample that was collected down-gradient of the SMB and exhibited no physical evidence or analytical evidence of impact to the groundwater.

Analytical results are detailed in **Tables 24** through **27** and the complete laboratory analytical report is included in **Appendix B**.



## **4.0 CONCLUSIONS AND RECOMMENDATIONS**

PWGC has performed a Phase II ESA to determine if the site's long-term operation as a golf course has impacted the subject property. The Phase II ESA consisted of the following tasks:

- Installation of 77 shallow soil borings and analysis of 155 soil samples. The samples were divided into components of the golf course (greens, tee boxes, fairways, driving range, rough, and woods) to determine the extent of impact in each area based upon its usage.
- Installation of 5 deep soil borings and analysis of 6 soil samples.
- Installation of 6 groundwater monitoring wells, gauging of the wells, and analysis of 6 groundwater samples.

### **4.1 Conclusions**

Based on the results of the Phase II ESA, PWGC offers the following conclusions:

- The site's usage has resulted in impact to the shallow soils. Generally, the impact is focused on the greens and tee boxes, with less impact on the fairways and driving range. Little to no impact was observed in the roughs and woods and are generally similar to what would be observed in a residentially developed area. The shallowest soils exhibit the most impact which decreases with depth. The most prevalent contaminant observed, in terms of frequency and concentration, was mercury; other contaminants included chromium, arsenic, cadmium, lead, and several pesticides.
- Generally, soils at the site greater than 2 feet below grade met UUSCOs indicating that the contaminants did not migrate significantly downwards. Within the greens and tee boxes, exceedances of RRSCOs were observed up to a depth of approximately 2.5 feet deep.
- The groundwater quality at the site has not shown evidence of being impacted by the site's usage.

### **4.2 Recommendations**

Based on the conclusions detailed above, PWGC offers the following recommendations for the subject property:

- In the event of soil intrusive activities or if the property is redeveloped, PWGC recommends preparation of a Soil and Materials Management Plan (SMMP) that details the proper handling of on-site soils to be protective for on-site personnel and the surrounding community.



## **5.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL**

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

Jennifer Lewis, PG  
Senior Project Manager

James P. Rhodes, PG  
Chief Operating Officer

Report Completion Date: July 11, 2018



## **6.0 REFERENCES**

NYSDEC, 6 NYCRR Part 375 Environmental Remediation Programs Subparts 375-1 to 375-4 & 375-6.

NYSDEC, New York State Brownfield Cleanup Program Development of Soil Cleanup Objectives Technical Support Document, September 2006.

NYSDEC, CP-51 / Soil Cleanup Guidance.

NYSDEC, 6 NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations.

NYSDEC, DER-10 / Technical Guidance for Site Investigation and Remediation.

Standard practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, ASTM Standard E 1903-11.



## **7.0 LIMITATIONS**

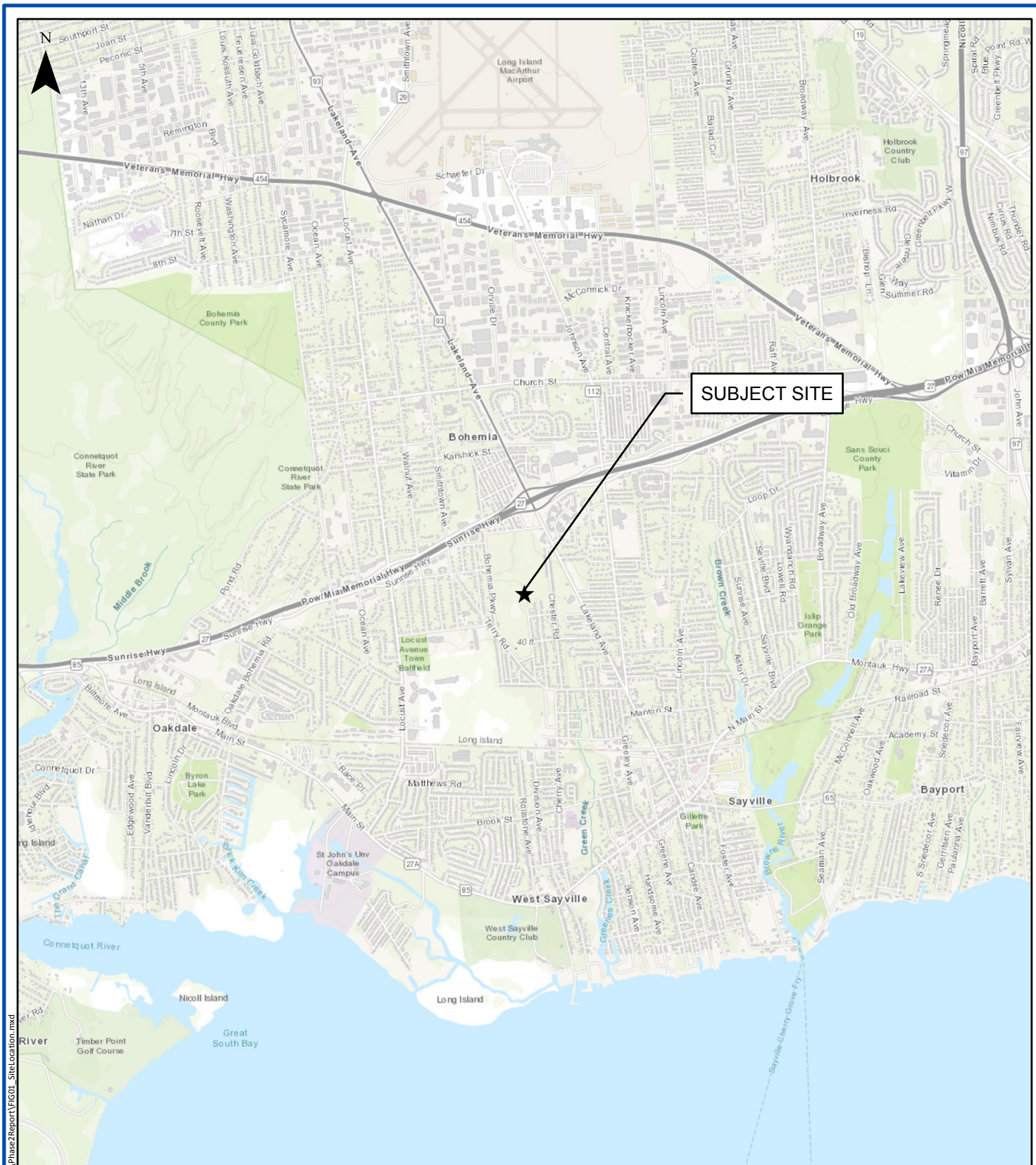
The conclusions presented in this report are professional opinions based on the data described in this report. These opinions have been arrived at in accordance with currently accepted engineering and hydrogeologic standards and practices applicable to this location, and are subject to the following inherent limitations:

1. The data presented in this report are from visual inspections and examination of records prepared by others. The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration of the site, analysis of data, and re-evaluation of the findings, observations, and conclusions presented in this report.
2. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. The scope of work was defined by the request of the client.
3. No warranty or guarantee, whether expressed or implied, is made with respect to the data reported, findings, observations, or conclusions. These are based solely upon site conditions in existence at the time of the investigation, and other information obtained and reviewed by PWGC.
4. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, site location, and project indicated. This report is not a definitive study of contamination at the site and should not be interpreted as such.
5. This report is based, in part, on information supplied to PWGC by third-party sources. While efforts have been made to substantiate this third-party information, PWGC cannot attest to the completeness or accuracy of information provided by others.



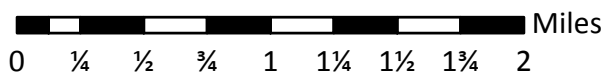
## FIGURES





## SITE LOCATION

458 Lakeland Ave  
Sayville, NY



**PWGC**

Strategic Environmental and Engineering Solutions

P.W. GROSSER CONSULTING, INC.

630 Johnson Avenue, Suite 7  
Bohemia, NY 11716-2618  
Phone: (631) 589-6353 • Fax: (631) 589-8705  
E-mail: INFO@PWGROSSER.COM

Project:	RSL1801
Date:	6/8/2018
Designed by:	JLL
Drawn by:	TJS
Approved by:	JLL
Figure No:	1





**PWGC**

Strategic Environmental and Engineering Solutions

P.W. GROSSER CONSULTING ENGINEER  
AND HYDROGEOLOGIST, P.C.

630 Johnson Avenue, • Suite 7  
Bohemia • NY • 11716-2618  
Phone: (631) 589-6353 • Fax: (631) 589-8705  
E-mail: INFO@PWGROSSER.COM

UNAUTHORIZED ALTERATION OR ADDITION TO THIS  
DRAWING AND RELATED DOCUMENTS IS A VIOLATION  
OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS
----------	------	---------	----------

DRAWING INFORMATION:

Project:	RSL1801	Designed by:	JLL
Date:	6/8/2018	Drawn by:	TJS
Scale:	AS SHOWN	Approved by:	JLL

SITE PLAN

458 Lakeland Ave  
Sayville, NY

FIGURE NO:

2

- Site Tax Lot Boundary
- Tax Lot Boundary





UNAUTHORIZED ALTERATION OR ADDITION TO THIS  
DRAWING AND RELATED DOCUMENTS IS A VIOLATION  
OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

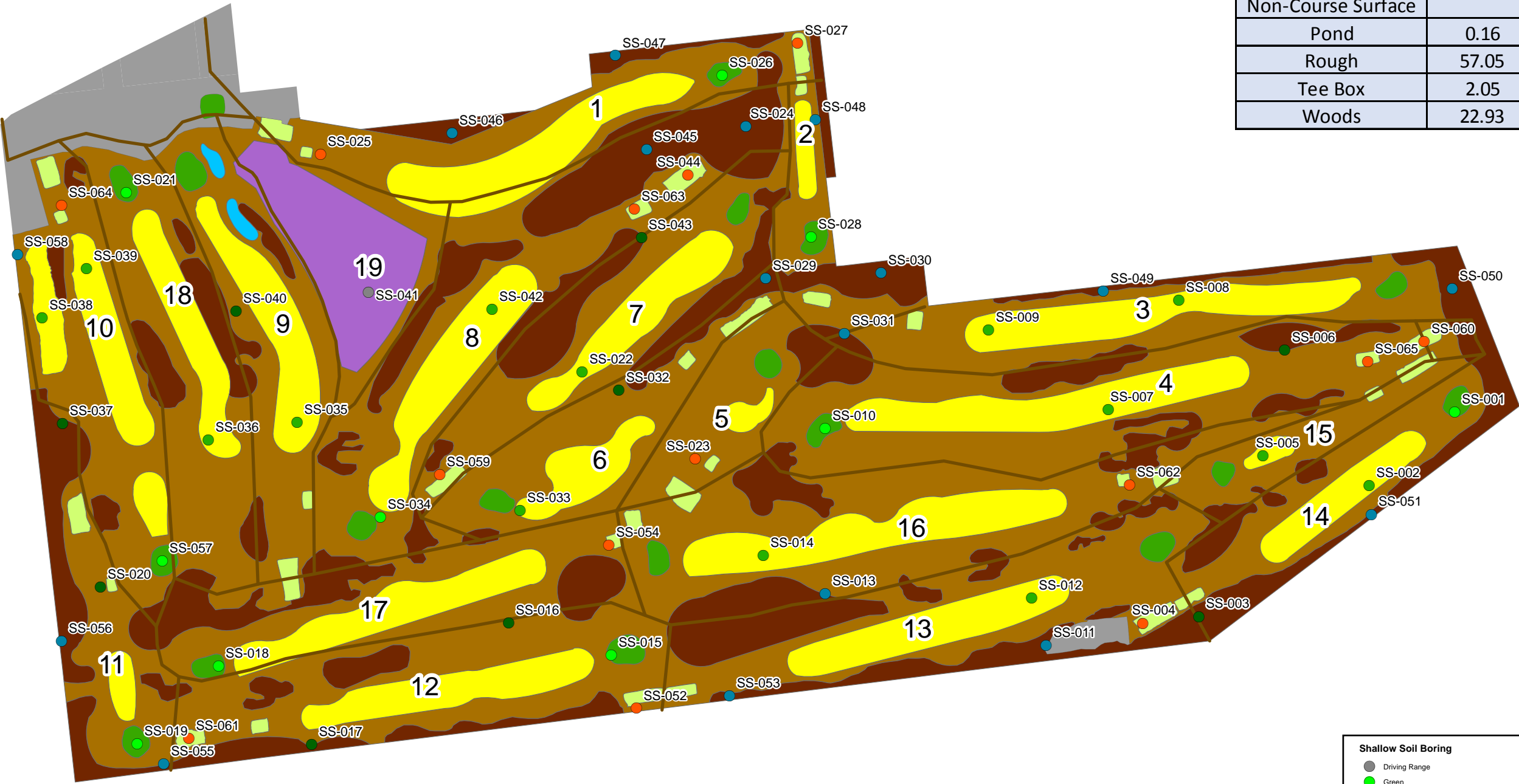
Project:	18LP254	Designed by:	JLL
Date:	7/3/2018	Drawn by:	TS
Scale:	AS SHOWN	Approved by:	JLL

## SAMPLING LOCATIONS

ISLAND HILLS GOLF COURSE  
SAYVILLE, NY

FIGURE NO:  
3





Location Type	Total Area (Acres)
Driving Range	2.94
Fairway	22.99
Green	1.94
Impervious Surface / Non-Course Surface	3.99
Pond	0.16
Rough	57.05
Tee Box	2.05
Woods	22.93



PWGC

Strategic Environmental and Engineering Solutions

P.W. GROSSER CONSULTING, INC.

630 Johnson Avenue, • Suite 7  
Bohemia • NY • 11716-2618  
Phone: (631) 589-6353 • Fax: (631) 589-8705  
E-mail: INFO@PWGROSSER.COM

UNAUTHORIZED ALTERATION OR ADDITION TO THIS  
DRAWING AND RELATED DOCUMENTS IS A VIOLATION  
OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	18LP254	Designed by:	JLL
Date:	7/13/2018	Drawn by:	PH
Scale:	AS SHOWN	Approved by:	JLL

SHALLOW SOIL SAMPLE  
LOCATIONS  
ISLAND HILLS GOLF COURSE  
SAYVILLE, NY

FIGURE NO:  
4A

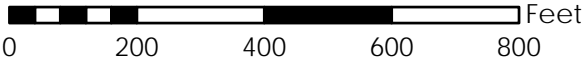
**Shallow Soil Boring**

- Driving Range
- Green
- Fairway
- Rough
- Tee Box
- Woods

**Golf Areas**

- Driving Range
- Fairway
- Green
- Impervious Surface / Non-Course Surface
- Pond
- Rough
- Tee Box
- Woods

16 Golf Hole Number







## Strategic Environmental and Engineering Solutions

630 Johnson Avenue. • Suite 7  
Bohemia • NY • 11716-2618  
Phone: (631) 589-6353 • Fax: (631) 589-8705  
E-mail: [INFO@PWGROSSER.COM](mailto:INFO@PWGROSSER.COM)

UNAUTHORIZED ALTERATION OR ADDITION TO THIS  
DRAWING AND RELATED DOCUMENTS IS A VIOLATION  
OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS
----------	------	---------	----------

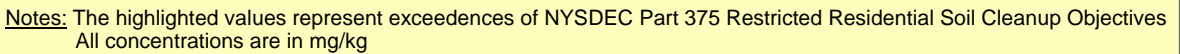
DRAWING INFORMATION:

Project:	18LP254	Designed by:	JLL
Date:	7/13/2018	Drawn by:	PH
Scale:	AS SHOWN	Approved by:	JLL

ISLAND HILLS GOLF COURSE  
SAYVILLE, NY

FIGURE NO:

4B







Compound	RRSCO
Mercury	5.8



P.W. GROSSER CONSULTING, INC.

630 Johnson Avenue, • Suite 7  
Bohemia • NY • 11716-2618  
Phone: (631) 589-6353 • Fax: (631) 589-8705  
E-mail: INFO@PWGROSSER.COM

UNAUTHORIZED ALTERATION OR ADDITION TO THIS  
DRAWING AND RELATED DOCUMENTS IS A VIOLATION  
OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

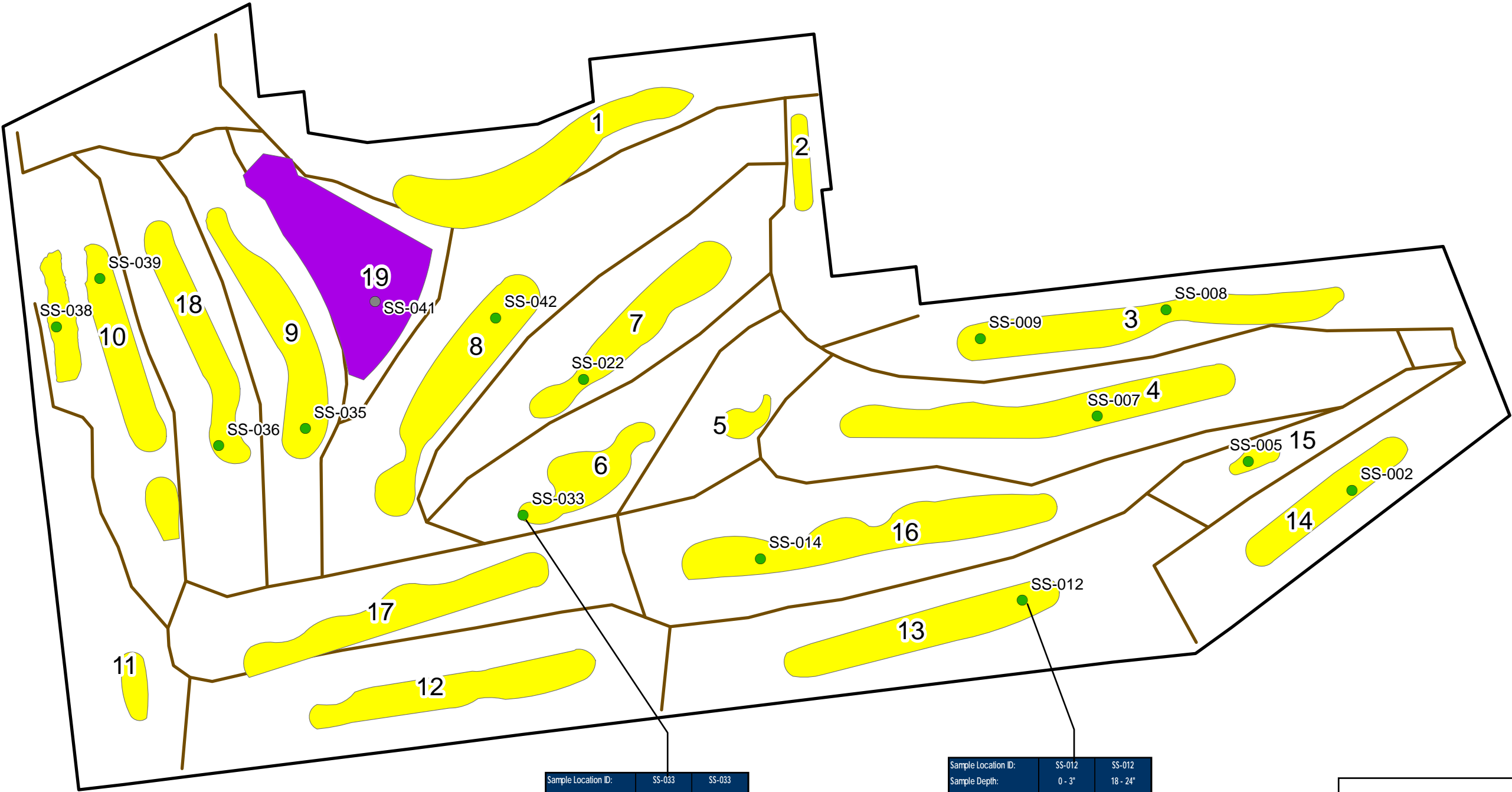
Project:	18LP254	Designed by:	JLL
Date:	7/13/2018	Drawn by:	PH
Scale:	AS SHOWN	Approved by:	JLL

SHALLOW SOIL SAMPLE  
EXCEEDANCES -  
FAIRWAYS

ISLAND HILLS GOLF COURSE  
SAYVILLE, NY

FIGURE NO:

4C



Sample Location ID:	SS-033	SS-033
Sample Depth:	0 - 3"	18 - 24"
Sampling Date:	05/22/18	05/22/18
Mercury	9.5	0.046

Sample Location ID:	SS-012	SS-012
Sample Depth:	0 - 3"	18 - 24"
Sampling Date:	05/21/18	05/21/18
Mercury	6.4	0.084

Shallow Soil Boring

- Driving Range
- Fairway

Golf Areas

- Driving Range
- Fairway

16 Golf Hole Number

Notes: The highlighted values represent exceedances of NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives  
All concentrations are in mg/kg





**PWGC**

Strategic Environmental and Engineering Solutions

P.W. GROSSER CONSULTING, INC.

630 Johnson Avenue, • Suite 7  
Bohemia • NY • 11716-2618  
Phone: (631) 589-6353 • Fax: (631) 589-8705  
E-mail: INFO@PWGROSSER.COM

UNAUTHORIZED ALTERATION OR ADDITION TO THIS  
DRAWING AND RELATED DOCUMENTS IS A VIOLATION  
OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

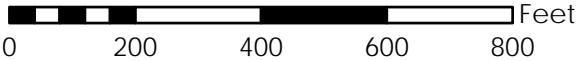
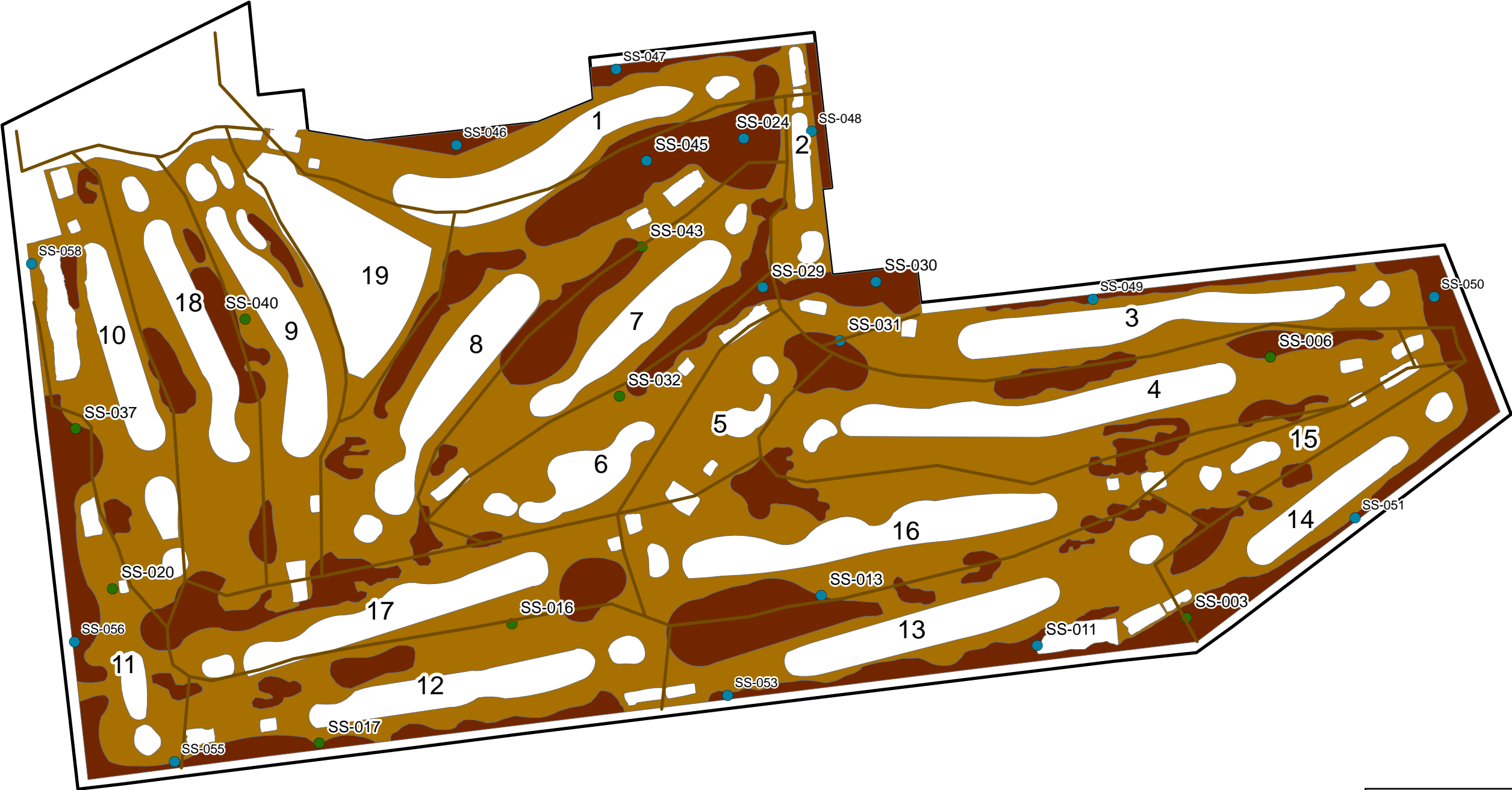
DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:			
Project:	18LP254	Designed by:	JLL
Date:	7/5/2018	Drawn by:	PH
Scale:	AS SHOWN	Approved by:	JLL

SHALLOW SOIL SAMPLE  
EXCEEDANCES -  
ROUGH & WOODS  
ISLAND HILLS GOLF COURSE  
SAYVILLE, NY

FIGURE NO:  
4D



Note: The highlighted values represent exceedences of NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives

**Shallow Soil Boring**

- Rough (Green dot)
- Woods (Blue dot)

**Golf Areas**

- Rough (Light brown)
- Woods (Dark brown)

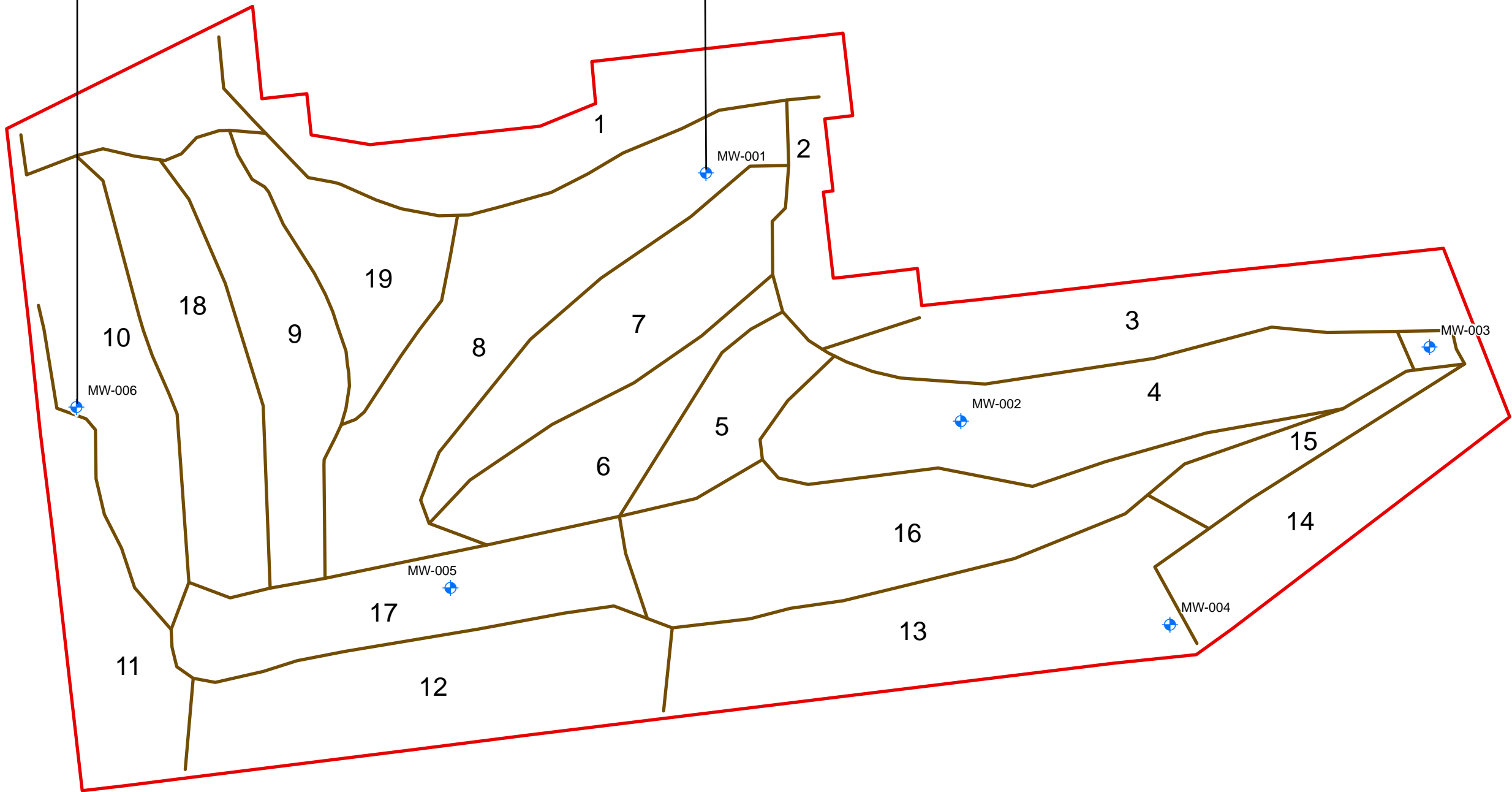
**16** Golf Hole Number





MW-006		
5/23/2018		
Compound	Total	Dissolved
Iron	320	71.5
Sodium	23,700	22,400

MW-001		
5/23/2018		
Compound	Total	Dissolved
Manganese	335	312



- 16 Golf hole designation
- Site Boundary
- Monitoring Well Location
- Courses

Note: The highlighted values represent the exceedance of NYSDEC TOGS AWQS



PWGC

Strategic Environmental and Engineering Solutions

P.W. GROSSER CONSULTING, INC.

630 Johnson Avenue, • Suite 7  
Bohemia • NY • 11716-2618  
Phone: (631) 589-6353 • Fax: (631) 589-8705  
E-mail: INFO@PWGROSSER.COM

UNAUTHORIZED ALTERATION OR ADDITION TO THIS  
DRAWING AND RELATED DOCUMENTS IS A VIOLATION  
OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:			
Project:	18LP254	Designed by:	JLL
Date:	6/12/2018	Drawn by:	UC
Scale:	AS SHOWN	Approved by:	JLL

GROUNDWATER  
EXCEEDANCES

ISLAND HILLS GOLF COURSE  
SAYVILLE, NY

FIGURE NO:  
5



# TABLES



Table 1

Shallow Soil Sample Analytical Results - Greens (Metals, Pesticides, Herbicides)  
Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Green SS-001 0 - 3" 460-156541-1-DL 05/18/2018	Green SS-001 18 - 24" 460-156722-54 05/22/18	Green SS-001 30 - 36" 460-158175-4 06/12/18	Green SS-010 0 - 3" 460-156541-11- 05/18/2018	Green SS-010 18 - 24" 460-156722-63 05/22/18	Green SS-010 30 - 36" 460-158175-47 06/12/18	Green SS-015 0 - 3" 460-156630-6 05/21/18	Green SS-015 18 - 24" 460-156630-25 05/21/18	Green SS-015 30 - 36" 460-158175-22 06/12/18	Green SS-015 36 - 42" 460-158175-23 06/12/18	Green SS-015N 0 - 3" 460-158498-1 06/15/18	Green SS-015N 18 - 24" 460-158498-2 06/15/18	Green SS-015E 0 - 3" 460-158498-3 06/15/18	Green SS-015E 18 - 24" 460-158498-4 06/15/18	Green SS-015E 30 - 36" 460-158511-3 06/15/18
Metals by USEPA Method 6010C (mg/kg)																		
Aluminum	NS	NS	NS	1990	NA	NA	4210	NA	NA	7270	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NS	NS	NS	0.71 J	NA	NA	4.3 U	NA	NA	5.7 U	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	16	0.84 J	NA	NA	2.1 J	NA	NA	3.4 J	NA	NA	NA	NA	NA	NA	NA	NA
Barium	350	820	400	20.0 J	NA	NA	27.2 J	NA	NA	17.6 J	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	47	72	0.049 U	NA	NA	0.22 J	NA	NA	0.21 J	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	7.5	4.3	6.5	0.83	NA	1.9	0.33 J	NA	4.6	0.56 J	NA	NA	NA	NA	NA	NA	NA
Calcium	NS	NS	NS	1320	NA	NA	698 J	NA	NA	2260	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	30	NS	180	52.1	12.0	NA	15.6	10.0	NA	35.1	14.3	NA	NA	NA	NA	NA	NA	NA
Cobalt	NS	NS	NS	1.3 J	NA	NA	1.2 U	NA	NA	11.3 U	NA	NA	NA	NA	NA	NA	NA	NA
Copper	50	1720	270	11.8	NA	NA	9.6	NA	NA	13.5	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NS	NS	NS	4320	NA	NA	2780	NA	NA	3670	NA	NA	NA	NA	NA	NA	NA	NA
Lead	63	450	400	17.7	NA	NA	5.0	NA	NA	14.5	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NS	NS	NS	551 J	NA	NA	357 J	NA	NA	679 J	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	2000	2000	219	NA	NA	200	NA	NA	301	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	30	130	310	3.5 J	NA	NA	2.3 J	NA	NA	2.8 J	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NS	NS	NS	196 J	NA	NA	112 J	NA	NA	146 J	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	4	180	1.3 U	NA	NA	1.3 U	NA	NA	4.5 U	NA	NA	NA	NA	NA	NA	NA	NA
Silver	2	8.3	180	0.33 U	NA	NA	0.32 U	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NS	NS	NS	82.6 U	NA	NA	81.2 U	NA	NA	1130 U	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NS	NS	NS	1.3 U	NA	NA	1.2 U	NA	NA	4.5 U	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NS	NS	NS	6.8 J	NA	NA	4.5 J	NA	NA	5.7 J	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	109	2480	10000	57.2	NA	NA	44.2	NA	NA	72.1	NA	NA	NA	NA	NA	NA	NA	NA
Mercury by USEPA Method 7471B (mg/kg)																		
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	14.4	4.9	0.4	2.3	6.1	0.26	16.0	6.4	2.4	0.10	18.8	1.5	27.4	8.8	0.32
Herbicides by USEPA Method 8151B (mg/kg)																		
2,4,5-T	NS	1.9	NS	0.0082 U	NA	NA	0.0077 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	NS	0.5	NS	0.014 U	NA	NA	0.013 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
Silvex (2,4,5-TP)	3.8	3.8	100	0.0040 U	NA	NA	0.0038 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides by USEPA Method 8081B (mg/kg)																		
4,4'-DDD	0.0033	14	13	0.066 U	NA	NA	0.012 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.0033	17	8.9	0.046 U	NA	NA	0.0086 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.0033	136	7.9	0.071 U	NA	NA	0.013 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.005	0.19	0.097	0.058 U	NA	NA	0.011 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	0.02	0.02	0.48	0.039 U	NA	NA	0.0074 U	NA	NA	0.012 U	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	0.036	0.09	0.36	0.043 U	NA	NA	0.0081 U	NA	NA	0.012 U	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane (technical)	0.094	2.9	4.2	36	1.7	NA	7.7	1.2	NA	4.9	1.6	NA	NA	NA	NA	NA	NA	NA
delta-BHC	0.04	0.25	100	0.024 U	NA	NA	0.0044 U	NA	NA	0.012 U	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	0.1	0.2	0.050 U	NA	NA	0.0094 U	NA	NA	0.012 U	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	102	24	0.059 U	NA	NA	0.011 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	102	24	0.099 U	NA	NA	0.019 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	2.4	1000	24	0.048 U	NA	NA	0.0091 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	0.06	11	0.055 U	NA	NA	0.010 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	NS	NS	NS	0.091 U	NA	NA	0.017 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	NS	NS	NS	0.075 U	NA	NA	0.014 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	0.1	0.1	1.3	0.036 U	NA	NA	0.0067 U	NA	NA	0.012 U	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	0.38	2.1	0.046 U	NA	NA	0.0086 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NS	0.02	NS	0.058 U	0.12	NA	0.14	0.0075 U	NA	0.26	0.087	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NS	900	NS	0.088 U	NA	NA	0.017 U	NA	NA	0.039 U	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NS	NS	NS	1.4 U	NA	NA	0.26 U	NA	NA	0.39 U	NA	NA	NA	NA	NA	NA	NA	NA

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a  
<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restriced Use Soil Cleanup Objective Table 375-6.8b  
<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objectives Technical Support Document, Tables 5.6-1 and 7-2, September 2006  
NS - No Standard  
NA - Not Analyzed  
J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
U : Indicates the analyte was analyzed for but not detected.  
F1 : MS and/or MSD Recovery is outside acceptance limits.  
F2 : MS/MSD RPD exceeds control limits  
B : Compound was found in the blank and sample.  
P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported  
\* : LCS or LCSD is outside acceptance limits.  
Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria  
Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria  
Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 1

Shallow Soil Sample Analytical Results - Greens (Metals, Pesticides, Herbicides)  
Island Hills Golf Course, Sayville, NY

Location Type:	NYSDEC Unrestricted	NYSDEC Groundwater	NYSDEC Restricted	Green SS-015E	Green SS-015S	Green SS-015S	Green SS-015W	Green SS-015W	Green SS-018	Green SS-018	Green SS-018	Green SS-018	Green SS-019	Green SS-019	Green SS-019	Green SS-019	Green SS-019N	Green SS-019N	Green SS-019N
Sample Location ID:	Use Soil	Protection Soil	Residential Soil	36 - 42"	0 - 3"	18 - 24"	0 - 3"	18 - 24"	0 - 3"	18 - 24"	30 - 36"	0 - 3"	18 - 24"	30 - 36"	36 - 42"	0 - 3"	18 - 24"	30 - 36"	
Sample Depth:	Cleanup	Cleanup	Cleanup	460-158511-4	460-158498-5	460-158498-6	460-158498-7	460-158498-8	460-156630-10	460-156630-27	460-158175-28	460-156630-11	460-156630-28	460-158175-36	460-158175-37	460-158498-9	460-158498-10	460-158511-9	
Laboratory ID:	Objective <sup>1</sup>	Objective <sup>2</sup>	Objective <sup>2</sup>	06/15/18	06/15/18	06/15/18	06/15/18	06/15/18	05/21/18	05/21/18	06/12/18	05/21/18	05/21/18	06/12/18	06/12/18	06/15/18	06/15/18	06/15/18	
Sampling Date:																			
Metals by USEPA Method 6010C (mg/kg)																			
Aluminum	NS	NS	NS	NA	NA	NA	NA	NA	2930	NA	NA	9340	NA	NA	NA	NA	NA	NA	
Antimony	NS	NS	NS	NA	NA	NA	NA	NA	4.8 U	NA	NA	4.7 U	NA	NA	NA	NA	NA	NA	
Arsenic	13	16	16	NA	NA	NA	NA	NA	8.7	NA	NA	3.4 J	NA	NA	NA	NA	NA	NA	
Barium	350	820	400	NA	NA	NA	NA	NA	24.5 J	NA	NA	22.5 J	NA	NA	NA	NA	NA	NA	
Beryllium	7.2	47	72	NA	NA	NA	NA	NA	0.23 J	NA	NA	0.32 J	NA	NA	NA	NA	NA	NA	
Cadmium	2.5	7.5	4.3	NA	NA	NA	NA	NA	4.6	0.41 J	NA	6.9	0.71 U	NA	NA	NA	NA	NA	
Calcium	NS	NS	NS	NA	NA	NA	NA	NA	1160	NA	NA	1740	NA	NA	NA	NA	NA	NA	
Chromium	30	NS	180	NA	NA	NA	NA	NA	44.6	6.7	NA	71.7	11.5	NA	NA	NA	NA	NA	
Cobalt	NS	NS	NS	NA	NA	NA	NA	NA	1.4 J	NA	NA	1.7 J	NA	NA	NA	NA	NA	NA	
Copper	50	1720	270	NA	NA	NA	NA	NA	11.4	NA	NA	13.7	NA	NA	NA	NA	NA	NA	
Iron	NS	NS	NS	NA	NA	NA	NA	NA	4180	NA	NA	5120	NA	NA	NA	NA	NA	NA	
Lead	63	450	400	NA	NA	NA	NA	NA	18.9	NA	NA	74.6	12.5	NA	NA	NA	NA	NA	
Magnesium	NS	NS	NS	NA	NA	NA	NA	NA	521 J	NA	NA	674 J	NA	NA	NA	NA	NA	NA	
Manganese	1600	2000	2000	NA	NA	NA	NA	NA	245	NA	NA	201	NA	NA	NA	NA	NA	NA	
Nickel	30	130	310	NA	NA	NA	NA	NA	3.5 J	NA	NA	4.4 J	NA	NA	NA	NA	NA	NA	
Potassium	NS	NS	NS	NA	NA	NA	NA	NA	179 J	NA	NA	261 J	NA	NA	NA	NA	NA	NA	
Selenium	3.9	4	180	NA	NA	NA	NA	NA	4.6 U	NA	NA	4.8 U	NA	NA	NA	NA	NA	NA	
Silver	2	8.3	180	NA	NA	NA	NA	NA	2.3 U	NA	NA	2.4 U	NA	NA	NA	NA	NA	NA	
Sodium	NS	NS	NS	NA	NA	NA	NA	NA	1150 U	NA	NA	1190 U	NA	NA	NA	NA	NA	NA	
Thallium	NS	NS	NS	NA	NA	NA	NA	NA	4.6 U	NA	NA	4.8 U	NA	NA	NA	NA	NA	NA	
Vanadium	NS	NS	NS	NA	NA	NA	NA	NA	6.7 J	NA	NA	8.6 J	NA	NA	NA	NA	NA	NA	
Zinc	109	2480	10000	NA	NA	NA	NA	NA	60.8	NA	NA	75.9	NA	NA	NA	NA	NA	NA	
Mercury by USEPA Method 7471B (mg/kg)																			
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	0.53	10.3	4.0	41.3	3.9	15.4	4.5	0.21	44.4	8.3	0.95	1.8	0.88	23.5	0.69	
Herbicides by USEPA Method 8151B (mg/kg)																			
2,4,5-T	NS	1.9	NS	NA	NA	NA	NA	NA	0.039 U	NA	NA	0.040 U	NA	NA	NA	NA	NA	NA	
2,4-D	NS	0.5	NS	NA	NA	NA	NA	NA	0.039 U	NA	NA	0.040 U	NA	NA	NA	NA	NA	NA	
Silvex (2,4,5-TP)	3.8	3.8	100	NA	NA	NA	NA	NA	0.039 U	NA	NA	0.040 U	NA	NA	NA	NA	NA	NA	
Pesticides by USEPA Method 8081B (mg/kg)																			
4,4'-DDD	0.0033	14	13	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
4,4'-DDE	0.0033	17	8.9	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
4,4'-DDT	0.0033	136	7.9	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
Aldrin	0.005	0.19	0.097	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
alpha-BHC	0.02	0.02	0.48	NA	NA	NA	NA	NA	0.024 U	NA	NA	0.048 U	NA	NA	NA	NA	NA	NA	
beta-BHC	0.036	0.09	0.36	NA	NA	NA	NA	NA	0.061	NA	NA	0.15	NA	NA	NA	NA	NA	NA	
Chlordane (technical)	0.094	2.9	4.2	NA	NA	NA	NA	NA	9.7	0.51	NA	26	0.67	NA	NA	NA	NA	NA	
delta-BHC	0.04	0.25	100	NA	NA	NA	NA	NA	0.024 U	NA	NA	0.048 U	NA	NA	NA	NA	NA	NA	
Dieldrin	0.005	0.1	0.2	NA	NA	NA	NA	NA	0.024 U	NA	NA	0.048 U	NA	NA	NA	NA	NA	NA	
Endosulfan I	2.4	102	24	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
Endosulfan II	2.4	102	24	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
Endosulfan sulfate	2.4	1000	24	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
Endrin	0.014	0.06	11	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
Endrin aldehyde	NS	NS	NS	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
Endrin ketone	NS	NS	NS	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
gamma-BHC (Lindane)	0.1	0.1	1.3	NA	NA	NA	NA	NA	0.024 U	NA	NA	0.048 U	NA	NA	NA	NA	NA	NA	
Heptachlor	0.042	0.38	2.1	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
Heptachlor epoxide	NS	0.02	NS	NA	NA	NA	NA	NA	0.60	0.034	NA	0.98	0.024	NA	NA	NA	NA	NA	
Methoxychlor	NS	900	NS	NA	NA	NA	NA	NA	0.079 U	NA	NA	0.16 U	NA	NA	NA	NA	NA	NA	
Toxaphene	NS	NS	NS	NA	NA	NA	NA	NA	0.79 U	NA	NA	1.6 U	NA	NA	NA	NA	NA	NA	

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestrictc

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restrictcd

<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objec

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the cor

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 4

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use

Highlighted text denotes concentrations exceeding NYSDEC Protection of G

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Resi



Table 1

Shallow Soil Sample Analytical Results - Greens (Metals, Pesticides, Herbicides)  
Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Green SS-019N 36 - 42" 460-158511-10 06/15/18	Green SS-019E 0 - 3" 460-158498-11 06/15/18	Green SS-019E 18 - 24" 460-158498-12 06/15/18	Green SS-019S 0 - 3" 460-158498-13 06/15/18	Green SS-019S 18 - 24" 460-158498-14 06/15/18	Green SS-019W 0 - 3" 460-158498-15 06/15/18	Green SS-019W 18 - 24" 460-158498-16 06/15/18	Green SS-021 0 - 3" 460-156630-13 05/21/18	Green SS-021 18 - 24" 460-156630-14 05/21/18	Green SS-021 30 - 36" 460-158175-39 06/12/18	Green SS-026 0 - 3" 460-156722-2 05/22/18	Green SS-026 18 - 24" 460-156722-43 05/22/18	Green SS-026 30 - 36" 460-158175-15 06/12/18	Green SS-026 36 - 42" 460-158175-16 06/12/18	Green SS-026N 0 - 3" 460-158498-17 06/15/18
Metals by USEPA Method 6010C (mg/kg)																		
Aluminum	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	12400	5150	NA	1320	NA	NA	NA	NA
Antimony	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	4.7 U	4.7 U	NA	5.8 U	NA	NA	NA	NA
Arsenic	13	16	16	NA	NA	NA	NA	NA	NA	NA	6.3	3.1 J	NA	1.5 J	NA	NA	NA	NA
Barium	350	820	400	NA	NA	NA	NA	NA	NA	NA	26.9 J	22.6 J	NA	21.1 J	NA	NA	NA	NA
Beryllium	7.2	47	72	NA	NA	NA	NA	NA	NA	NA	0.39 J	0.20 J	NA	0.12 J	NA	NA	NA	NA
Cadmium	2.5	7.5	4.3	NA	NA	NA	NA	NA	NA	NA	4.1	0.93 U	NA	7.3	1.2	NA	NA	NA
Calcium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	1240	804 J	NA	1420 J	NA	NA	NA	NA
Chromium	30	NS	180	NA	NA	NA	NA	NA	NA	NA	34.0	13.6	NA	67.3	13.5	NA	NA	NA
Cobalt	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	1.4 J	2.4 J	NA	14.4 U	NA	NA	NA	NA
Copper	50	1720	270	NA	NA	NA	NA	NA	NA	NA	11.0	5.5 J	NA	10.9	NA	NA	NA	NA
Iron	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	4000	13700	NA	4540	NA	NA	NA	NA
Lead	63	450	400	NA	NA	NA	NA	NA	NA	NA	20.1	10.8	NA	11.0	NA	NA	NA	NA
Magnesium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	513 J	1140 J	NA	428 J	NA	NA	NA	NA
Manganese	1600	2000	2000	NA	NA	NA	NA	NA	NA	NA	188	69.7	NA	304	NA	NA	NA	NA
Nickel	30	130	310	NA	NA	NA	NA	NA	NA	NA	4.7 J	7.5 J	NA	2.5 J	NA	NA	NA	NA
Potassium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	166 J	362 J	NA	140 J	NA	NA	NA	NA
Selenium	3.9	4	180	NA	NA	NA	NA	NA	NA	NA	4.5 U	4.7 U	NA	5.8 U	NA	NA	NA	NA
Silver	2	8.3	180	NA	NA	NA	NA	NA	NA	NA	2.2 U	2.3 U	NA	2.9 U	NA	NA	NA	NA
Sodium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	1120 U	1170 U	NA	1440 U	NA	NA	NA	NA
Thallium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	4.5 U	4.7 U	NA	5.8 U	NA	NA	NA	NA
Vanadium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	6.5 J	22.3	NA	7.2 J	NA	NA	NA	NA
Zinc	109	2480	10000	NA	NA	NA	NA	NA	NA	NA	50.0	35.2	NA	56.0	NA	NA	NA	NA
Mercury by USEPA Method 7471B (mg/kg)																		
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	0.3	11.6	1.2	3.4	0.53	8.2	2.0	14.3	1.0	0.78	33.4	13.4	3.4	3.0	4.3
Herbicides by USEPA Method 8151B (mg/kg)																		
2,4,5-T	NS	1.9	NS	NA	NA	NA	NA	NA	NA	NA	0.038 U	0.040 U	NA	0.048 U	NA	NA	NA	NA
2,4-D	NS	0.5	NS	NA	NA	NA	NA	NA	NA	NA	0.038 U	0.040 U	NA	0.048 U	NA	NA	NA	NA
Silvex (2,4,5-TP)	3.8	3.8	100	NA	NA	NA	NA	NA	NA	NA	0.038 U	0.040 U	NA	0.048 U	NA	NA	NA	NA
Pesticides by USEPA Method 8081B (mg/kg)																		
4,4'-DDD	0.0033	14	13	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
4,4'-DDE	0.0033	17	8.9	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
4,4'-DDT	0.0033	136	7.9	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
Aldrin	0.005	0.19	0.097	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
alpha-BHC	0.02	0.02	0.48	NA	NA	NA	NA	NA	NA	NA	0.046 U	0.0031	NA	0.029 U	NA	NA	NA	NA
beta-BHC	0.036	0.09	0.36	NA	NA	NA	NA	NA	NA	NA	0.046 U	0.0024 U	NA	0.029 U	NA	NA	NA	NA
Chlordane (technical)	0.094	2.9	4.2	NA	NA	NA	NA	NA	NA	NA	17	0.49	NA	12	1.4	NA	NA	NA
delta-BHC	0.04	0.25	100	NA	NA	NA	NA	NA	NA	NA	0.046 U	0.0024 U	NA	0.029 U	NA	NA	NA	NA
Dieldrin	0.005	0.1	0.2	NA	NA	NA	NA	NA	NA	NA	0.046 U	0.0024 U	NA	0.029 U	NA	NA	NA	NA
Endosulfan I	2.4	102	24	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
Endosulfan II	2.4	102	24	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
Endosulfan sulfate	2.4	1000	24	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
Endrin	0.014	0.06	11	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
Endrin aldehyde	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
Endrin ketone	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
gamma-BHC (Lindane)	0.1	0.1	1.3	NA	NA	NA	NA	NA	NA	NA	0.046 U	0.0024 U	NA	0.029 U	NA	NA	NA	NA
Heptachlor	0.042	0.38	2.1	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
Heptachlor epoxide	NS	0.02	NS	NA	NA	NA	NA	NA	NA	NA	0.81	0.035	NA	0.096 U	0.0085 U	NA	NA	NA
Methoxychlor	NS	900	NS	NA	NA	NA	NA	NA	NA	NA	0.15 U	0.0080 U	NA	0.096 U	NA	NA	NA	NA
Toxaphene	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	1.5 U	0.080 U	NA	0.96 U	NA	NA	NA	NA

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestrictc

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted

<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objec

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the cor

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 4

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use

Highlighted text denotes concentrations exceeding NYSDEC Protection of G

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Resi



Table 1

Shallow Soil Sample Analytical Results - Greens (Metals, Pesticides, Herbicides)  
Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Green SS-026N 18 - 24" 460-158498-18 06/15/18	Green SS-026E 0 - 3" 460-158498-19 06/15/18	Green SS-026E 18 - 24" 460-158498-20 06/15/18	Green SS-026S 0 - 3" 460-158498-21 06/15/18	Green SS-026S 18 - 24" 460-158498-22 06/15/18	Green SS-026W 0 - 3" 460-158498-23 06/15/18	Green SS-026W 18 - 24" 460-158498-24 06/15/18	Green SS-028 0 - 3" 460-156722-5 05/22/18	Green SS-028 18 - 24" 460-156722-44 05/22/18	Green SS-028 30 - 36" 460-158175-20 06/12/18	Green SS-034 0 - 3" 460-156722-12 05/22/18	Green SS-034 18 - 24" 460-156722-13 05/22/18	Green SS-034 30 - 36" 460-158175-41 06/12/18	Green SS-057 0 - 3" 460-156722-32 06/12/18	Green SS-057 18 - 24" 460-156722-33 06/12/18
Metals by USEPA Method 6010C (mg/kg)																		
Aluminum	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	2590	NA	NA	1370	11000	NA	NA	NA
Antimony	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	4.6 U	NA	NA	4.7 U	4.6 U	NA	NA	NA
Arsenic	13	16	16	NA	NA	NA	NA	NA	NA	NA	11.2	NA	NA	3.5 U	14.8	NA	NA	NA
Barium	350	820	400	NA	NA	NA	NA	NA	NA	NA	19.9 J	NA	NA	13.9 J	18.1 J	NA	NA	NA
Beryllium	7.2	47	72	NA	NA	NA	NA	NA	NA	NA	0.16 J	NA	NA	0.12 J	0.32 J	NA	NA	NA
Cadmium	2.5	7.5	4.3	NA	NA	NA	NA	NA	NA	NA	6.9	0.11 J	NA	3.6	0.33 J	NA	NA	NA
Calcium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	1520	NA	NA	1200	680 J	NA	NA	NA
Chromium	30	NS	180	NA	NA	NA	NA	NA	NA	NA	43.0	3.6	NA	31.1	16.8	NA	NA	NA
Cobalt	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	1.7 J	NA	NA	11.7 U	1.8 J	NA	NA	NA
Copper	50	1720	270	NA	NA	NA	NA	NA	NA	NA	13.8	NA	NA	10.7	5.3 J	NA	NA	NA
Iron	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	5050	NA	NA	4090	13800	NA	NA	NA
Lead	63	450	400	NA	NA	NA	NA	NA	NA	NA	14.2	NA	NA	9.8	16.2	NA	NA	NA
Magnesium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	780 J	NA	NA	662 J	836 J	NA	NA	NA
Manganese	1600	2000	2000	NA	NA	NA	NA	NA	NA	NA	186	NA	NA	216	56.1	NA	NA	NA
Nickel	30	130	310	NA	NA	NA	NA	NA	NA	NA	4.6 J	NA	NA	2.5 J	6.4 J	NA	NA	NA
Potassium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	208 J	NA	NA	120 J	300 J	NA	NA	NA
Selenium	3.9	4	180	NA	NA	NA	NA	NA	NA	NA	4.6 U	NA	NA	4.7 U	4.6 U	NA	NA	NA
Silver	2	8.3	180	NA	NA	NA	NA	NA	NA	NA	2.3 U	NA	NA	2.3 U	2.3 U	NA	NA	NA
Sodium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	1140 U	NA	NA	1170 U	1140 U	NA	NA	NA
Thallium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	4.6 U	NA	NA	4.7 U	4.6 U	NA	NA	NA
Vanadium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	8.2 J	NA	NA	6.0 J	23.7	NA	NA	NA
Zinc	109	2480	10000	NA	NA	NA	NA	NA	NA	NA	60.1	NA	NA	52.2	46.9	NA	NA	NA
Mercury by USEPA Method 7471B (mg/kg)																		
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	3.5	0.22	0.026	0.66	6.10	14.5	6.9	2.6	0.28	0.16	5.8	1.2	0.20	26.7	1.2
Herbicides by USEPA Method 8151B (mg/kg)																		
2,4,5-T	NS	1.9	NS	NA	NA	NA	NA	NA	NA	NA	0.039 U	NA	NA	0.040 U	0.038 U	NA	NA	NA
2,4-D	NS	0.5	NS	NA	NA	NA	NA	NA	NA	NA	0.039 U	NA	NA	0.040 U	0.038 U	NA	NA	NA
Silvex (2,4,5-TP)	3.8	3.8	100	NA	NA	NA	NA	NA	NA	NA	0.039 U	NA	NA	0.040 U	0.038 U	NA	NA	NA
Pesticides by USEPA Method 8081B (mg/kg)																		
4,4'-DDD	0.0033	14	13	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
4,4'-DDE	0.0033	17	8.9	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
4,4'-DDT	0.0033	136	7.9	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
Aldrin	0.005	0.19	0.097	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
alpha-BHC	0.02	0.02	0.48	NA	NA	NA	NA	NA	NA	NA	0.12 U	NA	NA	0.048 U	0.0023 U	NA	NA	NA
beta-BHC	0.036	0.09	0.36	NA	NA	NA	NA	NA	NA	NA	0.12 U	NA	NA	0.048 U	0.0023 U	NA	NA	NA
Chlordane (technical)	0.094	2.9	4.2	NA	NA	NA	NA	NA	NA	NA	27	0.64	NA	14	1.1	NA	NA	NA
delta-BHC	0.04	0.25	100	NA	NA	NA	NA	NA	NA	NA	0.12 U	NA	NA	0.21	0.0023 U	NA	NA	NA
Dieldrin	0.005	0.1	0.2	NA	NA	NA	NA	NA	NA	NA	0.12 U	NA	NA	0.048 U	0.0023 U	NA	NA	NA
Endosulfan I	2.4	102	24	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
Endosulfan II	2.4	102	24	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
Endosulfan sulfate	2.4	1000	24	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
Endrin	0.014	0.06	11	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
Endrin aldehyde	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
Endrin ketone	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
gamma-BHC (Lindane)	0.1	0.1	1.3	NA	NA	NA	NA	NA	NA	NA	0.12 U	NA	NA	0.048 U	0.0023 U	NA	NA	NA
Heptachlor	0.042	0.38	2.1	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
Heptachlor epoxide	NS	0.02	NS	NA	NA	NA	NA	NA	NA	NA	0.39 U	0.018	NA	0.26	0.070	NA	NA	NA
Methoxychlor	NS	900	NS	NA	NA	NA	NA	NA	NA	NA	0.39 U	NA	NA	0.16 U	0.0076 U	NA	NA	NA
Toxaphene	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	3.9 U	NA	NA	1.6 U	0.076 U	NA	NA	NA

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestrictc

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restrictcd

<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objec

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the cor

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 4

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Us

Highlighted text denotes concentrations exceeding NYSDEC Protection of G

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Resi



Table 2

**Shallow Soil Sample Analytical Results - Greens (VOCs)**  
**Island Hills Golf Course, Sayville, NY**

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Green SS-019 0 - 3" 460-156630- 05/21/18	Green SS-021 0 - 3" 460-156630- 05/21/18
<b>Volatile Organic Compounds by USEPA method 8260C (mg/Kg)</b>					
1,1,1-Trichloroethane	0.68	0.68	100	0.0011 U	0.00093 U
1,1,2,2-Tetrachloroethane	NS	0.6	NS	0.0011 U	0.00093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	6	NS	0.0011 U	0.00093 U
1,1,2-Trichloroethane	NS	NS	NS	0.0011 U	0.00093 U
1,1-Dichloroethane	0.27	0.27	26	0.0011 U	0.00093 U
1,1-Dichloroethene	0.33	0.33	100	0.0011 U	0.00093 U
1,2,3-Trichlorobenzene	NS	NS	NS	0.0011 U	0.00093 U
1,2,4-Trichlorobenzene	NS	3.4	NS	0.0011 U	0.00093 U
1,2-Dibromo-3-Chloropropane	NS	NS	NS	0.0011 U	0.00093 U
1,2-Dichlorobenzene	1.1	1.1	100	0.0011 U	0.00093 U
1,2-Dichloroethane	0.02	0.02	3.1	0.0011 U	0.00093 U
1,2-Dichloropropane	NS	NS	NS	0.0011 U	0.00093 U
1,3-Dichlorobenzene	2.4	2.4	49	0.0011 U	0.00093 U
1,4-Dichlorobenzene	1.8	1.8	13	0.0011 U	0.00093 U
1,4-Dioxane	0.1	0.1	13	0.022 U	0.019 U
2-Butanone (MEK)	0.12	0.3	100	0.0054 U	0.0046 U
2-Hexanone	NS	NS	NS	0.0054 U	0.0046 U
4-Methyl-2-pentanone (MIBK)	NS	1	NS	0.0054 U	0.0046 U
Acetone	0.05	0.05	100	0.0054 U	0.0046 U
Benzene	0.06	0.06	4.8	0.0011 U	0.00093 U
Bromoform	NS	NS	NS	0.0011 U	0.00093 U
Bromomethane	NS	NS	NS	0.0011 U	0.00093 U
Carbon disulfide	NS	2.7	NS	0.0011 U	0.00093 U
Carbon tetrachloride	0.76	0.76	2.4	0.0011 U	0.00093 U
Chlorobenzene	1.1	1.1	100	0.0011 U	0.00093 U
Chlorobromomethane	NS	NS	NS	0.0011 U	0.00093 U
Chlorodibromomethane	NS	NS	NS	0.0011 U	0.00093 U
Chloroethane	NS	1.9	NS	0.0011 U	0.00093 U
Chloroform	0.37	0.37	49	0.0011 U	0.00093 U
Chloromethane	NS	NS	NS	0.0011 U	0.00093 U
cis-1,2-Dichloroethene	0.25	0.25	100	0.0011 U	0.00093 U
cis-1,3-Dichloropropene	NS	NS	NS	0.0011 U	0.00093 U
Cyclohexane	NS	NS	NS	0.0011 U	0.00093 U
Dichlorobromomethane	NS	NS	NS	0.0011 U	0.00093 U
Dichlorodifluoromethane	NS	NS	NS	0.0011 U	0.00093 U
Ethylbenzene	1	1	41	0.0011 U	0.00093 U
Ethylene Dibromide	NS	NS	NS	0.0011 U	0.00093 U
Isopropylbenzene	NS	2.3	NS	0.0011 U	0.00093 U
Methyl acetate	NS	NS	NS	0.0054 U	0.0046 U
Methyl tert-butyl ether	0.93	0.93	100	0.0011 U	0.00093 U
Methylcyclohexane	NS	NS	NS	0.0011 U	0.00093 U
Methylene Chloride	0.05	0.05	100	0.0016 B	0.00093 U
m-Xylene & p-Xylene	0.26	NS	NS	0.00049 J	0.00038 J
o-Xylene	0.26	NS	NS	0.00021 J	0.00013 J
Styrene	NS	NS	NS	0.0011 U	0.00093 U
Tetrachloroethene	1.3	1.3	19	0.0011 U	0.00093 U
Toluene	0.7	0.7	100	0.0011 U	0.00093 U
trans-1,2-Dichloroethene	0.19	0.19	100	0.0011 U	0.00093 U
trans-1,3-Dichloropropene	NS	NS	NS	0.0011 U	0.00093 U
Trichloroethene	0.47	0.47	21	0.0011 U	0.00093 U
Trichlorofluoromethane	NS	NS	NS	0.0011 U	0.00093 U
Vinyl chloride	0.02	0.02	0.9	0.0011 U	0.00093 U
Total Conc	NS	NS	NS	0.0023	0.00051

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 3

## Shallow Soil Sample Analytical Results - Greens (SVOCs)

Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Green SS-019 0 - 3" 460-156630-11 05/21/18	Green SS-021 0 - 3" 460-156630-13 05/21/18
Semi-Volatile Organic Compounds by USEPA method 8270D (mg/Kg)					
1,1'-Biphenyl	NS	NS	NS	0.4000 U	0.3800 U
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	0.4000 U	0.3800 U
2,2'-oxybis[1-chloropropane]	NS	NS	NS	0.4000 U	0.3800 U
2,3,4,6-Tetrachlorophenol	NS	NS	NS	0.400 U	0.380 U
2,4,5-Trichlorophenol	NS	0.1	NS	0.400 U	0.380 U
2,4,6-Trichlorophenol	NS	NS	NS	0.160 U	0.150 U
2,4-Dichlorophenol	NS	0.4	NS	0.1600 U	0.1500 U
2,4-Dimethylphenol	NS	NS	NS	0.400 U	0.380 U
2,4-Dinitrophenol	NS	0.2	NS	0.32 U	0.30 U
2,4-Dinitrotoluene	NS	NS	NS	0.081 U	0.077 U
2,6-Dinitrotoluene	NS	NS	NS	0.081 U	0.077 U
2-Chloronaphthalene	NS	NS	NS	0.400 U	0.380 U
2-Chlorophenol	NS	NS	NS	0.4000 U	0.3800 U
2-Methylnaphthalene	NS	36.4	NS	0.4000 U	0.3800 U
2-Methylphenol	0.33	0.33	100	0.4000 U	0.3800 U
2-Nitroaniline	NS	0.4	NS	0.400 U	0.380 U
2-Nitrophenol	NS	0.3	NS	0.400 U	0.380 U
3,3'-Dichlorobenzidine	NS	NS	NS	0.160 U	0.150 U
3-Nitroaniline	NS	0.5	NS	0.400 U	0.380 U
4,6-Dinitro-2-methylphenol	NS	NS	NS	0.320 U	0.300 U
4-Bromophenyl phenyl ether	NS	NS	NS	0.4000 U	0.3800 U
4-Chloro-3-methylphenol	NS	NS	NS	0.4000 U	0.3800 U
4-Chloroaniline	NS	0.22	NS	0.400 U	0.380 U
4-Chlorophenyl phenyl ether	NS	NS	NS	0.4000 U	0.3800 U
4-Methylphenol	0.33	0.33	100	0.4000 U	0.3800 U
4-Nitroaniline	NS	NS	NS	0.400 U	0.380 U
4-Nitrophenol	NS	0.1	NS	0.810 U	0.770 U
Acenaphthene	20	98	100	0.400 U	0.380 U
Acenaphthylene	100	107	100	0.4000 U	0.3800 U
Acetophenone	NS	NS	NS	0.4000 U	0.3800 U
Anthracene	100	1000	100	0.4000 U	0.3800 U
Atrazine	NS	NS	NS	0.1600 U	0.1500 U
Benzaldehyde	NS	NS	NS	0.400 U	0.380 U
Benzo[a]anthracene	1	1	1	0.020 J	0.014 J
Benzo[a]pyrene	1	22	1	0.0400 U	0.0380 U
Benzo[b]fluoranthene	1	1.7	1	0.0400 U	0.0380 U
Benzo[g,h,i]perylene	100	1000	100	0.400 U	0.380 U
Benzo[k]fluoranthene	0.8	1.7	3.9	0.0400 U	0.0380 U
Bis(2-chloroethoxy)methane	NS	NS	NS	0.400 U	0.380 U
Bis(2-chloroethyl)ether	NS	NS	NS	0.0400 U	0.0380 U
Bis(2-ethylhexyl) phthalate	NS	435	NS	0.400 U	0.380 U
Butyl benzyl phthalate	NS	122	NS	0.400 U	0.380 U
Caprolactam	NS	NS	NS	0.400 U	0.380 U
Carbazole	NS	NS	NS	0.4000 U	0.3800 U
Chrysene	1	1	3.9	0.4000 U	0.0130 J
Dibenz[a,h]anthracene	0.33	1000	0.33	0.040 U	0.038 U
Dibenzofuran	7	6.2	59	0.4000 U	0.3800 U
Diethyl phthalate	NS	7.1	NS	0.4000 U	0.3800 U
Dimethyl phthalate	NS	27	NS	0.4000 U	0.3800 U
Di-n-butyl phthalate	NS	8.1	NS	0.400 U	0.380 U
Di-n-octyl phthalate	NS	120	NS	0.400 U	0.380 U
Fluoranthene	100	1000	100	0.0220 J	0.0170 J
Fluorene	30	386	100	0.4000 U	0.3800 U
Hexachlorobenzene	0.33	1.4	1.2	0.0400 U	0.0240 J
Hexachlorobutadiene	NS	NS	NS	0.0810 U	0.0770 U
Hexachlorocyclopentadiene	NS	NS	NS	0.400 U	0.380 U
Hexachloroethane	NS	NS	NS	0.0400 U	0.0380 U
Indeno[1,2,3-cd]pyrene	0.5	8.2	0.5	0.040 U	0.038 U
Isophorone	NS	4.4	NS	0.1600 U	0.1500 U
Naphthalene	12	12	100	0.4000 U	0.3800 U
Nitrobenzene	NS	0.17	NS	0.0400 U	0.0380 U
N-Nitrosodi-n-propylamine	NS	NS	NS	0.0400 U	0.0380 U
N-Nitrosodiphenylamine	NS	NS	NS	0.4000 U	0.3800 U
Pentachlorophenol	0.8	0.8	6.7	0.320 U	0.300 U
Phenanthrene	100	1000	100	0.4000 U	0.3800 U
Phenol	0.33	0.33	100	0.4000 U	0.3800 U
Pyrene	100	1000	100	0.4000 U	0.3800 U
Total Conc.	NS	NS	NS	0.042	0.068

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is &gt; 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 4

**Shallow Soil Sample Analytical Results - Greens (PCBs)**  
**Island Hills Golf Course, Sayville, NY**

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Green SS-019 0 - 3" 460-156630-11 05/21/18	Green SS-021 0 - 3" 460-156630-13 05/21/18
<b>Polychlorinated biphenyls by USEPA method 8082A (mg/Kg)</b>					
Aroclor 1016	NS	NS	NS	0.0810 U	0.0770 U
Aroclor 1221	NS	NS	NS	0.0810 U	0.0770 U
Aroclor 1232	NS	NS	NS	0.0810 U	0.0770 U
Aroclor 1242	NS	NS	NS	0.0810 U	0.0770 U
Aroclor 1248	NS	NS	NS	0.0810 U	0.0770 U
Aroclor 1254	NS	NS	NS	0.0810 U	0.0770 U
Aroclor 1260	NS	NS	NS	0.0810 U	0.0770 U
Aroclor 1268	NS	NS	NS	0.0810 U	0.0770 U
Aroclor-1262	NS	NS	NS	0.0810 U	0.0770 U
Polychlorinated biphenyls, Total	0.1	3.2	1	0.0810 U	0.0770 U

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 5

Shallow Soil Sample Analytical Results - Tee Boxes (Metals, Pesticides, Herbicides)  
Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Tee Box SS-004 0 - 3" 460-156541-4 05/18/2018	Tee Box SS-004 18 - 24" 460-156541-5 05/18/2018	Tee Box SS-023 0 - 3" 460-156630-16 05/21/18	Tee Box SS-023 18 - 24" 460-156630-17 05/21/18	Tee Box SS-025 0 - 3" 460-156722-1 05/22/18	Tee Box SS-025 18 - 24" 460-156722-43 05/22/18	Tee Box SS-025 30 - 36" 460-158175-11 06/12/18	Tee Box SS-025 36 - 42" 460-158175-12 06/12/18	Tee Box SS-027 0 - 3" 460-156722-3 05/22/18	Tee Box SS-027 18 - 24" 460-156722-4 05/22/18	Tee Box SS-027 30 - 36" 460-158175-17 06/12/18
Metals by USEPA Method 6010C (mg/kg)														
Aluminum	NS	NS	NS	9660	4070	6420	2540	7470	NA	NA	NA	2530	11300	NA
Antimony	NS	NS	NS	1.2 J	0.53 U	4.5 U	4.2 U	5.8 U	NA	NA	NA	5.5 U	5.6 U	NA
Arsenic	13	16	16	14.9	1.9 J	1.8 J	0.93 J	7.2	NA	NA	NA	3.2 J	25.9	1.3
Barium	350	820	400	35.6 J	12.0 J	10.2 J	4.8 J	22.8 J	NA	NA	NA	17.2 J	35.6 J	NA
Beryllium	7.2	47	72	0.15 J	0.051 U	0.16 J	0.095 J	0.29 J	NA	NA	NA	0.17 J	0.45 J	NA
Cadmium	2.5	7.5	4.3	0.47 J	0.13 U	0.96 U	0.90 U	1.2 U	NA	NA	NA	0.18 J	0.50 J	NA
Calcium	NS	NS	NS	2050	1080 J	1830	423 J	1210 J	NA	NA	NA	1060 J	2720	NA
Chromium	30	NS	180	44.2	4.5	26.8	7.5	22.2	NA	NA	NA	25.1	43.4	NA
Cobalt	NS	NS	NS	3.0 J	1.3 U	2.6 J	11.2 U	1.9 J	NA	NA	NA	1.7 J	3.2 J	NA
Copper	50	1720	270	18.9	3.2 J	12.0	3.6 J	8.7	NA	NA	NA	11.7	24.1	NA
Iron	NS	NS	NS	11900	6550	9310	7010	9130	NA	NA	NA	5980	12600	NA
Lead	63	450	400	33.9	7.6	14.9	8.7	18.0	NA	NA	NA	15.0	30.8	NA
Magnesium	NS	NS	NS	1370	349 J	926 J	539 J	885 J	NA	NA	NA	625 J	1500	NA
Manganese	1600	2000	2000	210	13.2	244	45.9	135	NA	NA	NA	242	239	NA
Nickel	30	130	310	8.1 J	1.9 J	5.3 J	4.0 J	5.3 J	NA	NA	NA	4.0 J	8.0 J	NA
Potassium	NS	NS	NS	367 J	153 J	220 J	161 J	261 J	NA	NA	NA	178 J	338 J	NA
Selenium	3.9	4	180	1.4 U	1.3 J	4.8 U	4.5 U	5.8 U	NA	NA	NA	5.5 U	5.6 U	NA
Silver	2	8.3	180	0.36 U	0.34 U	2.4 U	2.2 U	2.9 U	NA	NA	NA	2.7 U	2.8 U	NA
Sodium	NS	NS	NS	90.8 U	85.5 U	1200 U	1120 U	1440 U	NA	NA	NA	1370 U	1400 U	NA
Thallium	NS	NS	NS	1.4 U	1.3 U	4.8 U	4.5 U	5.8 U	NA	NA	NA	5.5 U	5.6 U	NA
Vanadium	NS	NS	NS	22.6	11.4	14.1	12.0	16.1	NA	NA	NA	9.0 J	23.1	NA
Zinc	109	2480	10000	56.8	8.0	39.2	22.7	35.8	NA	NA	NA	42.0	65.7	NA
Mercury by USEPA Method 7471B (mg/kg)														
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	10.9	0.23	3.3	0.13	2.4	15.7	2.6	1.5	3.8	6.9	0.069
Herbicides by USEPA Method 8151B (mg/kg)														
2,4,5-T	NS	1.9	NS	0.0084 U	0.0082 U	0.041 U	0.038 U	0.049 U	NA	NA	NA	0.046 U	0.048 U	NA
2,4-D	NS	0.5	NS	0.014 U	0.014 U	0.041 U	0.038 U	0.049 U	NA	NA	NA	0.046 U	0.048 U	NA
Silvex (2,4,5-TP)	3.8	3.8	100	0.0041 U	0.0040 U	0.041 U	0.038 U	0.049 U	NA	NA	NA	0.046 U	0.048 U	NA
Pesticides by USEPA Method 8081B (mg/kg)														
4,4'-DDD	0.0033	14	13	0.0014 U	0.0013 U	0.0083 U	0.0077 U	0.0098 U	NA	NA	NA	0.0093 U	0.0096 U	NA
4,4'-DDE	0.0033	17	8.9	0.12	0.0053 J	0.0083 U	0.0077 U	0.0098 U	NA	NA	NA	0.0093 U	0.13	NA
4,4'-DDT	0.0033	136	7.9	0.10	0.0032 J	0.061	0.021	0.025	NA	NA	NA	0.0093 U	0.11	NA
Aldrin	0.005	0.19	0.097	0.0012 U	0.0012 U	0.0083 U	0.0077 U	0.0098 U	NA	NA	NA	0.0093 U	0.0096 U	NA
alpha-BHC	0.02	0.02	0.48	0.00081 U	0.00078 U	0.0025 U	0.0023 U	0.0029 U	NA	NA	NA	0.0028 U	0.0029 U	NA
beta-BHC	0.036	0.09	0.36	0.00089 U	0.00086 U	0.0025 U	0.0023 U	0.0029 U F1	NA	NA	NA	0.0028 U	0.0029 U	NA
Chlordane (technical)	0.094	2.9	4.2	0.72	0.11	0.37	0.077 U	0.85	0.88	NA	NA	0.99	1.3	NA
delta-BHC	0.04	0.25	100	0.00049 U	0.00047 U	0.0025 U	0.0023 U	0.0029 U F1	NA	NA	NA	0.0028 U	0.0029 U	NA
Dieldrin	0.005	0.1	0.2	0.010	0.0010 U	0.0025 U	0.0023 U	0.0029 U	NA	NA	NA	0.0028 U	0.017	NA
Endosulfan I	2.4	102	24	0.0012 U	0.0012 U	0.0083 U	0.0077 U	0.0098 U	NA	NA	NA	0.0093 U	0.0096 U	NA
Endosulfan II	2.4	102	24	0.0020 U	0.0020 U	0.0083 U	0.0077 U	0.0098 U F1 F2	NA	NA	NA	0.0093 U	0.0096 U	NA
Endosulfan sulfate	2.4	1000	24	0.0010 U	0.00097 U	0.0083 U	0.0077 U	0.0098 U F1 F2	NA	NA	NA	0.0093 U	0.0096 U	NA
Endrin	0.014	0.06	11	0.0011 U	0.0011 U	0.0083 U	0.0077 U	0.0098 U	NA	NA	NA	0.0093 U	0.0096 U	NA
Endrin aldehyde	NS	NS	NS	0.0019 U	0.0018 U	0.0083 U	0.0077 U	0.0098 U F1	NA	NA	NA	0.0093 U	0.0096 U	NA
Endrin ketone	NS	NS	NS	0.0015 U	0.0015 U	0.0083 U	0.0077 U	0.0098 U F1	NA	NA	NA	0.0093 U	0.0096 U	NA
gamma-BHC (Lindane)	0.1	0.1	1.3	0.00074 U	0.00071 U	0.0025 U	0.0023 U	0.0029 U	NA	NA	NA	0.0028 U	0.0029 U	NA
Heptachlor	0.042	0.38	2.1	0.00094 U	0.00091 U	0.0083 U	0.0077 U	0.0098 U	NA	NA	NA	0.0093 U	0.0096 U	NA
Heptachlor epoxide	NS	0.02	NS	0.0012 U	0.0012 U	0.011	0.0077 U	0.0098 U	NA	NA	NA	0.12	0.11	NA
Methoxychlor	NS	900	NS	0.0018 U	0.0018 U	0.0083 U	0.0077 U	0.0098 U F1	NA	NA	NA	0.0093 U	0.0096 U	NA
Toxaphene	NS	NS	NS	0.029 U	0.028 U	0.083 U	0.077 U	0.098 U	NA	NA	NA	0.093 U	0.096 U	NA

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a  
<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b  
<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objectives Technical Support Document, Tables 5.6-1 and 7-2, September 2006

NS - No Standard  
NA - Not Analyzed  
J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
U : Indicates the analyte was analyzed for but not detected.  
F1 : MS and/or MSD Recovery is outside acceptance limits.  
F2 : MS/MSD RPD exceeds control limits  
B : Compound was found in the blank and sample.  
P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported  
\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria  
Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria  
Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 5

Shallow Soil Sample Analytical Results - Tee Boxes (Metals, Pesticides, Herbicides)  
Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Tee Box SS-044 0 - 3" 460-156722-37 05/22/18	Tee Box SS-044 18 - 24" 460-156722-54 05/22/18	Tee Box SS-052 0 - 3" 460-156722-7 06/12/18	Tee Box SS-052 18 - 24" 460-156722-8 06/12/18	Tee Box SS-054 0 - 3" 460-156722-24 06/12/18	Tee Box SS-054 18 - 24" 460-156722-25 06/12/18	Tee Box SS-059 0 - 3" 460-156722-43 06/12/18	Tee Box SS-059 18 - 24" 460-156722-44 06/12/18	Tee Box SS-060 0 - 3" 460-156722-49 06/12/18	Tee Box SS-060 18 - 24" 460-156722-50 06/12/18	Tee Box SS-060 30 - 36" 460-158175-51 06/12/18
Metals by USEPA Method 6010C (mg/kg)														
Aluminum	NS	NS	NS	4030	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NS	NS	NS	4.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	16	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	350	820	400	17.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	47	72	0.19 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	7.5	4.3	0.15 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NS	NS	NS	1160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	30	NS	180	13.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NS	NS	NS	1.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	50	1720	270	9.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NS	NS	NS	6090	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	63	450	400	27.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NS	NS	NS	752 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	2000	2000	166	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	30	130	310	4.1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NS	NS	NS	198 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	4	180	4.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	2	8.3	180	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NS	NS	NS	1110 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NS	NS	NS	4.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NS	NS	NS	11.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	109	2480	10000	38.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury by USEPA Method 7471B (mg/kg)														
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	0.56	0.090	0.35	0.79	17.6	0.12	1.0	0.47	5.7	7.5	0.10
Herbicides by USEPA Method 8151B (mg/kg)														
2,4,5-T	NS	1.9	NS	0.038 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	NS	0.5	NS	0.038 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex (2,4,5-TP)	3.8	3.8	100	0.038 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides by USEPA Method 8081B (mg/kg)														
4,4'-DDD	0.0033	14	13	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.0033	17	8.9	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.0033	136	7.9	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.005	0.19	0.097	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	0.02	0.02	0.48	0.0023 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	0.036	0.09	0.36	0.0023 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane (technical)	0.094	2.9	4.2	0.18	0.077 P	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	0.04	0.25	100	0.0023 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	0.1	0.2	0.0023 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	2.4	102	24	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	2.4	102	24	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	2.4	1000	24	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	0.014	0.06	11	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	NS	NS	NS	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	NS	NS	NS	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	0.1	0.1	1.3	0.0023 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.042	0.38	2.1	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NS	0.02	NS	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NS	900	NS	0.0076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NS	NS	NS	0.076 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted U

<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objectives

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential



Table 5

Shallow Soil Sample Analytical Results - Tee Boxes (Metals, Pesticides, Herbicides)  
Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Tee Box SS-060 36 - 42" 460-158175-52 06/12/18	Tee Box SS-061 0 - 3" 460-158498-25 06/15/18	Tee Box SS-061 18 - 24" 460-158498-26 06/15/18	Tee Box SS-062 0 - 3" 460-158498-27 06/15/18	Tee Box SS-062 18 - 24" 460-158498-28 06/15/18	Tee Box SS-063 0 - 3" 460-158498-29 06/15/18	Tee Box SS-063 18 - 24" 460-158498-30 06/15/18	Tee Box SS-064 0 - 3" 460-158498-31 06/15/18	Tee Box SS-064 18 - 24" 460-158498-32 06/15/18	Tee Box SS-065 0 - 3" 460-158498-33 06/15/18	Tee Box SS-065 18 - 24" 460-158498-34 06/15/18
Metals by USEPA Method 6010C (mg/kg)														
Aluminum	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	350	820	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	47	72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	7.5	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	30	NS	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	50	1720	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	63	450	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	2000	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	30	130	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	4	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	2	8.3	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	109	2480	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury by USEPA Method 7471B (mg/kg)														
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	0.21	5.0	2.7	2.9	4.2	1.8	17.9	0.4	1.9	1.5	0.16
Herbicides by USEPA Method 8151B (mg/kg)														
2,4,5-T	NS	1.9	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	NS	0.5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex (2,4,5-TP)	3.8	3.8	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides by USEPA Method 8081B (mg/kg)														
4,4'-DDD	0.0033	14	13	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.0079 U	0.0072 U	0.0079 U
4,4'-DDE	0.0033	17	8.9	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.0079 U	0.0072 U	0.0079 U
4,4'-DDT	0.0033	136	7.9	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.011	0.0072 U	0.0035 J
Aldrin	0.005	0.19	0.097	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.0079 U	0.0072 U	0.0079 U
alpha-BHC	0.02	0.02	0.48	NA	0.011 U	0.0022 U	0.013 U	0.0023 U	0.011 U	0.0022 U	0.011 U	0.0024 U	0.0021 U	0.0024 U
beta-BHC	0.036	0.09	0.36	NA	0.058	0.0022 U	0.017	0.0023 U	0.054	0.0022 U	0.3	0.0024 U	0.0021 U	0.0024 U
Chlordane (technical)	0.094	2.9	4.2	NA	3.6	0.6	3.7	0.64	2	0.73	1.9	0.079 U	0.39	0.74
delta-BHC	0.04	0.25	100	NA	0.011 U	0.0022 U	0.013 U	0.0023 U	0.011 U	0.0022 U	0.011 U	0.0024 U	0.0021 U	0.0024 U
Dieldrin	0.005	0.1	0.2	NA	0.011 U	0.0022 U	0.013 U	0.0023 U	0.011 U	0.0022 U	0.011 U	0.0092	0.0021 U	0.0048
Endosulfan I	2.4	102	24	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.0079 U	0.0072 U	0.0079 U
Endosulfan II	2.4	102	24	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.0079 U	0.0072 U	0.0079 U
Endosulfan sulfate	2.4	1000	24	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.0079 U	0.0072 U	0.0079 U
Endrin	0.014	0.06	11	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.0079 U	0.0072 U	0.0079 U
Endrin aldehyde	NS	NS	NS	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.0079 U	0.0072 U	0.0079 U
Endrin ketone	NS	NS	NS	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.0079 U	0.0072 U	0.0079 U
gamma-BHC (Lindane)	0.1	0.1	1.3	NA	0.011 U	0.0033	0.013 U	0.0028	0.011 U	0.0035	0.011 U	0.0024 U	0.0034	0.0031
Heptachlor	0.042	0.38	2.1	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.0079 U	0.0072 U	0.0079 U
Heptachlor epoxide	NS	0.02	NS	NA	0.052	0.006 J	0.051	0.0077	0.031 J	0.022	0.03 J	0.0079 U	0.0063 J	0.18
Methoxychlor	NS	900	NS	NA	0.037 U	0.0073 U	0.043 U	0.0076 U	0.038 U	0.0074 U	0.037 U	0.0079 U	0.0072 U	0.0079 U
Toxaphene	NS	NS	NS	NA	0.37 U	0.073 U	0.43 U	0.076 U	0.38 U	0.074 U	0.37 U	0.079 U	0.072 U	0.079 U

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted U

<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objectives

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential



Table 6

**Shallow Soil Sample Analytical Results - Tee Boxes (VOCs)**  
**Island Hills Golf Course, Sayville, NY**

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Tee Box SS-023 18" - 24" 460-156630- 05/21/18
<b>Volatile Organic Compounds by USEPA method 8260C (mg/Kg)</b>				
1,1,1-Trichloroethane	0.68	0.68	100	0.0010 U
1,1,2,2-Tetrachloroethane	NS	0.6	NS	0.0010 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	6	NS	0.0010 U
1,1,2-Trichloroethane	NS	NS	NS	0.0010 U
1,1-Dichloroethane	0.27	0.27	26	0.0010 U
1,1-Dichloroethene	0.33	0.33	100	0.0010 U
1,2,3-Trichlorobenzene	NS	NS	NS	0.0010 U
1,2,4-Trichlorobenzene	NS	3.4	NS	0.0010 U
1,2-Dibromo-3-Chloropropane	NS	NS	NS	0.0010 U
1,2-Dichlorobenzene	1.1	1.1	100	0.0010 U
1,2-Dichloroethane	0.02	0.02	3.1	0.0010 U
1,2-Dichloropropane	NS	NS	NS	0.0010 U
1,3-Dichlorobenzene	2.4	2.4	49	0.0010 U
1,4-Dichlorobenzene	1.8	1.8	13	0.0010 U
1,4-Dioxane	0.1	0.1	13	0.020 U
2-Butanone (MEK)	0.12	0.3	100	0.0051 U
2-Hexanone	NS	NS	NS	0.0051 U
4-Methyl-2-pentanone (MIBK)	NS	1	NS	0.0051 U
Acetone	0.05	0.05	100	0.0051 U
Benzene	0.06	0.06	4.8	0.0010 U
Bromoform	NS	NS	NS	0.0010 U
Bromomethane	NS	NS	NS	0.0010 U
Carbon disulfide	NS	2.7	NS	0.0010 U
Carbon tetrachloride	0.76	0.76	2.4	0.0010 U
Chlorobenzene	1.1	1.1	100	0.0010 U
Chlorobromomethane	NS	NS	NS	0.0010 U
Chlorodibromomethane	NS	NS	NS	0.0010 U
Chloroethane	NS	1.9	NS	0.0010 U
Chloroform	0.37	0.37	49	0.0010 U
Chloromethane	NS	NS	NS	0.0010 U
cis-1,2-Dichloroethene	0.25	0.25	100	0.0010 U
cis-1,3-Dichloropropene	NS	NS	NS	0.0010 U
Cyclohexane	NS	NS	NS	0.0010 U
Dichlorobromomethane	NS	NS	NS	0.0010 U
Dichlorodifluoromethane	NS	NS	NS	0.0010 U
Ethylbenzene	1	1	41	0.0010 U
Ethylene Dibromide	NS	NS	NS	0.0010 U
Isopropylbenzene	NS	2.3	NS	0.0010 U
Methyl acetate	NS	NS	NS	0.0051 U
Methyl tert-butyl ether	0.93	0.93	100	0.0010 U
Methylcyclohexane	NS	NS	NS	0.0010 U
Methylene Chloride	0.05	0.05	100	0.0010 B
m-Xylene & p-Xylene	0.26	NS	NS	0.00033 J
o-Xylene	0.26	NS	NS	0.00014 J
Styrene	NS	NS	NS	0.0010 U
Tetrachloroethene	1.3	1.3	19	0.0010 U
Toluene	0.7	0.7	100	0.0010 U
trans-1,2-Dichloroethene	0.19	0.19	100	0.0010 U
trans-1,3-Dichloropropene	NS	NS	NS	0.0010 U
Trichloroethene	0.47	0.47	21	0.0010 U
Trichlorofluoromethane	NS	NS	NS	0.0010 U
Vinyl chloride	0.02	0.02	0.9	0.0010 U
Total Conc	NS	NS	NS	0.00147

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 3<sup>1</sup>

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 7

**Shallow Soil Sample Analytical Results - Tee Boxes (SVOCs)**  
**Island Hills Golf Course, Sayville, NY**

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Tee Box SS-023 18" - 24" 460-156630-17 05/21/18
<b>Semi-Volatile Organic Compounds by USEPA method 8270D (mg/Kg)</b>				
1,1'-Biphenyl	NS	NS	NS	0.3800 U
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	0.3800 U
2,2'-oxybis[1-chloropropane]	NS	NS	NS	0.3800 U
2,3,4,6-Tetrachlorophenol	NS	NS	NS	0.380 U
2,4,5-Trichlorophenol	NS	0.1	NS	0.380 U
2,4,6-Trichlorophenol	NS	NS	NS	0.150 U
2,4-Dichlorophenol	NS	0.4	NS	0.1500 U
2,4-Dimethylphenol	NS	NS	NS	0.380 U
2,4-Dinitrophenol	NS	0.2	NS	0.30 U
2,4-Dinitrotoluene	NS	NS	NS	0.077 U
2,6-Dinitrotoluene	NS	NS	NS	0.077 U
2-Chloronaphthalene	NS	NS	NS	0.380 U
2-Chlorophenol	NS	NS	NS	0.3800 U
2-Methylnaphthalene	NS	36.4	NS	0.3800 U
2-Methylphenol	0.33	0.33	100	0.3800 U
2-Nitroaniline	NS	0.4	NS	0.380 U
2-Nitrophenol	NS	0.3	NS	0.380 U
3,3'-Dichlorobenzidine	NS	NS	NS	0.150 U
3-Nitroaniline	NS	0.5	NS	0.380 U
4,6-Dinitro-2-methylphenol	NS	NS	NS	0.300 U
4-Bromophenyl phenyl ether	NS	NS	NS	0.3800 U
4-Chloro-3-methylphenol	NS	NS	NS	0.3800 U
4-Chloroaniline	NS	0.22	NS	0.380 U
4-Chlorophenyl phenyl ether	NS	NS	NS	0.3800 U
4-Methylphenol	0.33	0.33	100	0.3800 U
4-Nitroaniline	NS	NS	NS	0.380 U
4-Nitrophenol	NS	0.1	NS	0.770 U
Acenaphthene	20	98	100	0.380 U
Acenaphthylene	100	107	100	0.3800 U
Acetophenone	NS	NS	NS	0.3800 U
Anthracene	100	1000	100	0.3800 U
Atrazine	NS	NS	NS	0.1500 U
Benzaldehyde	NS	NS	NS	0.380 U
Benzo[a]anthracene	1	1	1	0.038 U
Benzo[a]pyrene	1	22	1	0.0380 U
Benzo[b]fluoranthene	1	1.7	1	0.0380 U
Benzo[g,h,i]perylene	100	1000	100	0.3800 U
Benzo[k]fluoranthene	0.8	1.7	3.9	0.0380 U
Bis(2-chloroethoxy)methane	NS	NS	NS	0.380 U
Bis(2-chloroethyl)ether	NS	NS	NS	0.0380 U
Bis(2-ethylhexyl) phthalate	NS	435	NS	0.380 U
Butyl benzyl phthalate	NS	122	NS	0.380 U
Caprolactam	NS	NS	NS	0.380 U
Carbazole	NS	NS	NS	0.3800 U
Chrysene	1	1	3.9	0.3800 U
Dibenz(a,h)anthracene	0.33	1000	0.33	0.038 U
Dibenzofuran	7	6.2	59	0.3800 U
Diethyl phthalate	NS	7.1	NS	0.3800 U
Dimethyl phthalate	NS	27	NS	0.3800 U
Di-n-butyl phthalate	NS	8.1	NS	0.380 U
Di-n-octyl phthalate	NS	120	NS	0.380 U
Fluoranthene	100	1000	100	0.3800 U
Fluorene	30	386	100	0.3800 U
Hexachlorobenzene	0.33	1.4	1.2	0.0380 U
Hexachlorobutadiene	NS	NS	NS	0.0770 U
Hexachlorocyclopentadiene	NS	NS	NS	0.380 U
Hexachloroethane	NS	NS	NS	0.0380 U
Indeno[1,2,3-cd]pyrene	0.5	8.2	0.5	0.038 U
Isophorone	NS	4.4	NS	0.1500 U
Naphthalene	12	12	100	0.3800 U
Nitrobenzene	NS	0.17	NS	0.0380 U
N-Nitrosodi-n-propylamine	NS	NS	NS	0.0380 U
N-Nitrosodiphenylamine	NS	NS	NS	0.3800 U
Pentachlorophenol	0.8	0.8	6.7	0.300 U
Phenanthrene	100	1000	100	0.3800 U
Phenol	0.33	0.33	100	0.3800 U
Pyrene	100	1000	100	0.3800 U
Total Conc	NS	NS	NS	0

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Object

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approx.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has be

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 8

**Shallow Soil Sample Analytical Results - Tee Boxes (PCBs)**  
**Island Hills Golf Course, Sayville, NY**

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Tee Box SS-023 18" - 24" 460-156630-17 05/21/18
<b>Polychlorinated biphenyls by USEPA method 8082A (mg/Kg)</b>				
Aroclor 1016	NS	NS	NS	0.0770 U
Aroclor 1221	NS	NS	NS	0.0770 U
Aroclor 1232	NS	NS	NS	0.0770 U
Aroclor 1242	NS	NS	NS	0.0770 U
Aroclor 1248	NS	NS	NS	0.0770 U
Aroclor 1254	NS	NS	NS	0.0770 U
Aroclor 1260	NS	NS	NS	0.0770 U
Aroclor 1268	NS	NS	NS	0.0770 U
Aroclor-1262	NS	NS	NS	0.0770 U
Polychlorinated biphenyls, Total	0.1	3.2	1	0.0770 U

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 3

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restrictd Use Soil Cleanup Objective Table 375.

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reporte

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 9

Shallow Soil Sample Analytical Results - Fairways (Metals, Pesticides, Herbicides)  
Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Fairway SS-002 0 - 3" 460-156541-2- 05/18/2018	Fairway SS-002 18 - 24" 460-156722-56 5/22/2018	Fairway SS-005 0 - 3" 460-156541-6- 05/18/2018	Fairway SS-005 18 - 24" 460-156722-59 5/22/2018	Fairway SS-007 0 - 3" 460-156541-8 05/18/2018	Fairway SS-007 18 - 24" 460-156722-39 5/22/2018	Fairway SS-008 0 - 3" 460-156541-9- 05/18/2018	Fairway SS-008 18 - 24" 460-156722-61 5/22/2018	Fairway SS-009 0 - 3" 460-156541-10- 05/18/2018	Fairway SS-009 18 - 24" 460-156722-62 5/22/2018	Fairway SS-012 0 - 3" 460-156630-3 05/21/18	Fairway SS-012 18 - 24" 460-156630-22 05/21/18	Fairway SS-014 0 - 3" 460-156630-5 05/21/18	Fairway SS-014 18 - 24" 460-156630-24 05/21/18
Metals by USEPA Method 6010C (mg/kg)																	
Aluminum	NS	NS	NS	6360	NA	7000	NA	6320	5800	6450	NA	1010	NA	8390	NA	1370	NA
Antimony	NS	NS	NS	1.4 J	NA	1.0 J	NA	0.76 J	4.4 U	0.72 J	NA	0.51 U	NA	5.7 U	NA	4.5 U	NA
Arsenic	13	16	16	4.4	NA	3.4 J	NA	2.5 J	2.0 J	2.1 J	NA	0.78 U	NA	2.3 J	NA	1.3 J	NA
Barium	350	820	400	16.4 J	NA	16.4 J	NA	11.0 J	8.5 J	12.7 J	NA	8.7 J	NA	13.1 J	NA	14.9 J	NA
Beryllium	7.2	47	72	0.053 U	NA	0.057 U	NA	0.053 U	0.19 J	0.055 U	NA	0.048 U	NA	0.25 J	NA	0.10 J	NA
Cadmium	2.5	7.5	4.3	0.33 J	NA	0.73 J	NA	0.25 J	0.88 U	0.42 J	NA	0.21 J	NA	0.50 J	NA	0.42 J	NA
Calcium	NS	NS	NS	1590	NA	2070	NA	999 J	731 J	1930	NA	1180 J	NA	1770	NA	1320	NA
Chromium	30	NS	180	23.9	10.9	34.2	12.9	19.8	9.1	34.3	11.9	18.1	8.8	38.8	9.5	32.4	7.3
Cobalt	NS	NS	NS	1.3 U	NA	1.4 U	NA	1.3 U	11.0 U	1.4 U	NA	1.4 U	NA	16.1 U	NA	12.0 U	NA
Copper	50	1720	270	6.7	NA	8.0	NA	4.7 J	2.9 J	7.4	NA	4.4 J	NA	6.3 J	NA	5.2 J	NA
Iron	NS	NS	NS	6720	NA	8670	NA	7710	8720	9840	NA	6800	NA	7500	NA	6110	NA
Lead	63	450	400	20.9	NA	20.0	NA	15.0	5.7	22.8	NA	13.1	NA	29.3	NA	21.3	NA
Magnesium	NS	NS	NS	595 J	NA	722 J	NA	547 J	404 J	1010 J	NA	543 J	NA	700 J	NA	510 J	NA
Manganese	1600	2000	2000	74.7	NA	73.0	NA	71.7	39.2	104	NA	48.0	NA	89.0	NA	856	NA
Nickel	30	130	310	3.7 J	NA	3.8 J	NA	3.3 J	2.3 J	5.2 J	NA	3.3 J	NA	3.8 J	NA	4.2 J	NA
Potassium	NS	NS	NS	188 J	NA	216 J	NA	188 J	119 J	258 J	NA	159 J	NA	197 J	NA	158 J	NA
Selenium	3.9	4	180	1.4 U	NA	1.5 U	NA	1.4 U	4.4 U	1.5 U	NA	1.4 U	NA	6.4 U	NA	4.8 U	NA
Silver	2	8.3	180	0.35 U	NA	0.38 U	NA	0.35 U	2.2 U	0.37 U	NA	0.36 U	NA	3.2 U	NA	2.4 U	NA
Sodium	NS	NS	NS	89.1 U	NA	95.4 U	NA	89.5 U	1100 U	93.9 U	NA	91.8 U	NA	1610 U	NA	1200 U	NA
Thallium	NS	NS	NS	1.4 U	NA	1.5 U	NA	1.4 U	4.4 U	1.4 U	NA	1.4 U	NA	6.4 U	NA	4.8 U	NA
Vanadium	NS	NS	NS	14.6	NA	16.8	NA	14.1	14.1	18.7	NA	13.6	NA	17.3	NA	13.8	NA
Zinc	109	2480	10000	31.0	NA	33.6	NA	24.1	8.0	38.7	NA	19.8	NA	33.7	NA	30.8	NA
Mercury by USEPA Method 7471B (mg/kg)																	
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	1.6	0.087	4.2	0.44	2.3	0.31	3.9	0.089	3.0	0.16	6.4	0.084	5.3	0.088
Herbicides by USEPA Method 8151B (mg/kg)																	
2,4,5-T	NS	1.9	NS	0.0086 U	NA	0.0089 U	NA	0.0089 U	0.038 U	0.0090 U	NA	0.0090 U	NA	0.054 U	NA	0.041 U	NA
2,4-D	NS	0.5	NS	0.015 U	NA	0.015 U	NA	0.015 U	0.038 U	0.015 U	NA	0.015 U	NA	0.054 U	NA	0.041 U	NA
Silvex (2,4,5-TP)	3.8	3.8	100	0.0042 U	NA	0.0044 U	NA	0.0044 U	0.038 U	0.0044 U	NA	0.0044 U	NA	0.054 U	NA	0.041 U	NA
Pesticides by USEPA Method 8081B (mg/kg)																	
4,4'-DDD	0.0033	14	13	0.0069 U	NA	0.0072 U	NA	0.0014 U	0.0076 U	0.0073 U	NA	0.0072 U	NA	0.011 U	NA	0.0082 U	NA
4,4'-DDE	0.0033	17	8.9	0.0048 U	NA	0.0050 U	NA	0.00099 U	0.0076 U	0.0050 U	NA	0.0050 U	NA	0.011 U	NA	0.0082 U	NA
4,4'-DDT	0.0033	136	7.9	0.0075 U	NA	0.0078 U	NA	0.0015 U	0.0076 U	0.0078 U	NA	0.0078 U	NA	0.011 U	NA	0.0099	NA
Aldrin	0.005	0.19	0.097	0.0061 U	NA	0.0064 U	NA	0.0013 U	0.0076 U	0.0064 U	NA	0.0064 U	NA	0.011 U	NA	0.0082 U	NA
alpha-BHC	0.02	0.02	0.48	0.0041 U	NA	0.0043 U	NA	0.00085 U	0.0023 U	0.0043 U	NA	0.0043 U	NA	0.0032 U	NA	0.0025 U	NA
beta-BHC	0.036	0.09	0.36	0.0045 U	NA	0.0047 U	NA	0.00094 U	0.0023 U	0.0048 U	NA	0.0048 U	NA	0.0032 U	NA	0.0025 U	NA
Chlordane (technical)	0.094	2.9	4.2	2.8	0.12 P	2.8	0.093 P	0.67	0.076 U	1.7	0.075 U	1.4	0.15 P	1.1	0.078 U	0.47	0.074 U
delta-BHC	0.04	0.25	100	0.0025 U	NA	0.0026 U	NA	0.00051 U	0.0023 U	0.0026 U	NA	0.0026 U	NA	0.0032 U	NA	0.0025 U	NA
Dieldrin	0.005	0.1	0.2	0.0053 U	NA	0.0055 U	NA	0.0011 U	0.0023 U	0.0056 U	NA	0.0055 U	NA	0.0032 U	NA	0.026	NA
Endosulfan I	2.4	102	24	0.0062 U	NA	0.0064 U	NA	0.0013 U	0.0076 U	0.0065 U	NA	0.0065 U	NA	0.011 U	NA	0.0082 U	NA
Endosulfan II	2.4	102	24	0.010 U	NA	0.011 U	NA	0.0022 U	0.0076 U	0.011 U	NA	0.011 U	NA	0.011 U	NA	0.0082 U	NA
Endosulfan sulfate	2.4	1000	24	0.0051 U	NA	0.0053 U	NA	0.0011 U	0.0076 U	0.0054 U	NA	0.0053 U	NA	0.011 U	NA	0.0082 U	NA
Endrin	0.014	0.06	11	0.0058 U	NA	0.0061 U	NA	0.0012 U	0.0076 U	0.0061 U	NA	0.0061 U	NA	0.011 U	NA	0.0082 U	NA
Endrin aldehyde	NS	NS	NS	0.0096 U	NA	0.010 U	NA	0.0020 U	0.0076 U	0.010 U	NA	0.010 U	NA	0.011 U	NA	0.0082 U	NA
Endrin ketone	NS	NS	NS	0.0079 U	NA	0.0082 U	NA	0.0016 U	0.0076 U	0.0083 U	NA	0.0083 U	NA	0.011 U	NA	0.0082 U	NA
gamma-BHC (Lindane)	0.1	0.1	1.3	0.0038 U	NA	0.0039 U	NA	0.00078 U	0.0023 U	0.0040 U	NA	0.0039 U	NA	0.0032 U	NA	0.0025 U	NA
Heptachlor	0.042	0.38	2.1	0.0048 U	NA	0.0050 U	NA	0.00099 U	0.0076 U	0.0050 U	NA	0.0050 U	NA	0.011 U	NA	0.0082 U	NA
Heptachlor epoxide	NS	0.02	NS	0.31	0.014	0.34	0.017	0.0013 U	0.011	0.24	0.0075	0.28	0.035	0.33	0.0023 J F1	0.25	0.0074 U
Methoxychlor	NS	900	NS	0.0093 U	NA	0.0096 U	NA	0.0019 U	0.0076 U	0.0098 U	NA	0.0097 U	NA	0.011 U	NA	0.0082 U	NA
Toxaphene	NS	NS	NS	0.15 U	NA	0.15 U	NA	0.030 U	0.076 U	0.15 U	NA	0.15 U	NA	0.11 U	NA	0.082 U	NA

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a  
<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restrcted Use Soil Cleanup Objective Table 375-6.8b  
<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objectives Technical Support Document, Tables 5.6-1 and 7-2, September 2006  
NS - No Standard  
NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
U : Indicates the analyte was analyzed for but not detected.  
F1 : MS and/or MSD Recovery is outside acceptance limits.  
F2 : MS/MSD RPD exceeds control limits  
B : Compound was found in the blank and sample.  
P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported  
\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria  
Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria  
Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 9

Shallow Soil Sample Analytical Results - Fairways (Metals, Pesticides, Herbicides)  
Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Fairway SS-022 0 - 3" 460-156630-15 05/21/18	Fairway SS-022 18 - 24" 460-156630-30 05/21/18	Fairway SS-033 0 - 3" 460-156722-11 05/22/18	Fairway SS-033 18 - 24" 460-156722-48 05/22/18	Fairway SS-035 0 - 3" 460-156722-14 05/22/18	Fairway SS-035 18 - 24" 460-156722-49 05/22/18	Fairway SS-036 0 - 3" 460-156722-15 05/22/18	Fairway SS-036 18 - 24" 460-156722-16 05/22/18	Fairway SS-038 0 - 3" 460-156722-18 05/22/18	Fairway SS-038 18 - 24" 460-156722-19 05/22/18	Fairway SS-039 0 - 3" 460-156722-20 05/22/18	Fairway SS-039 18 - 24" 460-156722-51 05/22/18	Fairway SS-042 0 - 3" 460-156722-34 05/22/18	Fairway SS-042 18 - 24" 460-156722-53 05/22/18	
Metals by USEPA Method 6010C (mg/kg)																		
Aluminum	NS	NS	NS	5800	NA	4600	NA	4470	NA	4490	3780	4710	2600	6300	NA	3830	NA	
Antimony	NS	NS	NS	4.8 U	NA	5.0 U	NA	5.0 U	NA	4.4 U	4.3 U	4.4 U	4.2 U	4.6 U	NA	4.5 U	NA	
Arsenic	13	16	16	8.1	NA	2.3 J	NA	2.7 J	NA	2.3 J	0.83 J	1.5 J	3.2 U	2.6 J	NA	2.1 J	NA	
Barium	350	820	400	23.0 J	NA	18.8 J	NA	18.1 J	NA	17.9 J	5.1 J	10.7 J	12.5 J	18.0 J	NA	27.0 J	NA	
Beryllium	7.2	47	72	0.28 J	NA	0.17 J	NA	0.17 J	NA	0.20 J	0.10 J	0.15 J	0.14 J	0.23 J	NA	0.18 J	NA	
Cadmium	2.5	7.5	4.3	0.48 J	NA	0.95 J	NA	0.37 J	NA	0.65 J	0.86 U	0.89 U	0.84 U	0.30 J	NA	0.67 J	NA	
Calcium	NS	NS	NS	1780	NA	1750	NA	1030 J	NA	1700	262 J	504 J	3990	1340	NA	2000	NA	
Chromium	30	NS	180	42.0	5.6	52.6	6.4	15.6	11.1	36.3	5.7	6.4	4.8	31.6	18.3	42.2	11.3 F1	
Cobalt	NS	NS	NS	6.0 J	NA	12.5 U	NA	4.9 J	NA	6.0 J	1.5 J	11.1 U	2.7 J	1.4 J	NA	3.4 J	NA	
Copper	50	1720	270	6.5	NA	7.0	NA	8.4	NA	7.3	3.4 J	4.0 J	5.5	5.0 J	NA	6.7	NA	
Iron	NS	NS	NS	7380	NA	6110	NA	6430	NA	8130	4720	5830	4450	7470	NA	5860	NA	
Lead	63	450	400	32.2	NA	28.1	NA	19.1	NA	34.3	2.7	13.8	13.1	22.0	NA	41.6	NA	
Magnesium	NS	NS	NS	561 J	NA	536 J	NA	346 J	NA	565 J	210 J	494 J	1870	708 J	NA	434 J	NA	
Manganese	1600	2000	2000	622	NA	166	NA	638	NA	285	38.7	119	462	127	NA	558	NA	
Nickel	30	130	310	5.1 J	NA	3.4 J	NA	4.7 J	NA	4.3 J	3.1 J	2.9 J	3.7 J	3.9 J	NA	4.4 J	NA	
Potassium	NS	NS	NS	135 J	NA	108 J	NA	88.7 J	NA	153 J	1070 U	105 J	83.8 J	214 J	NA	106 J	NA	
Selenium	3.9	4	180	4.7 U	NA	5.0 U	NA	5.0 U	NA	4.4 U	4.3 U	4.4 U	4.2 U	4.6 U	NA	4.5 U	NA	
Silver	2	8.3	180	2.3 U	NA	2.5 U	NA	2.5 U	NA	2.2 U	2.1 U	2.2 U	2.1 U	2.3 U	NA	2.2 U	NA	
Sodium	NS	NS	NS	1170 U	NA	1250 U	NA	1260 U	NA	1100 U	1070 U	1110 U	1050 U	1150 U	NA	1120 U	NA	
Thallium	NS	NS	NS	4.7 U	NA	5.0 U	NA	5.0 U	NA	4.4 U	4.3 U	4.4 U	4.2 U	4.6 U	NA	4.5 U	NA	
Vanadium	NS	NS	NS	13.2	NA	11.5 J	NA	13.1	NA	12.2	7.0 J	10.8 J	9.1 J	14.4	NA	11.9	NA	
Zinc	109	2480	10000	45.0	NA	47.5	NA	30.5	NA	49.5	10.4	17.2	16.2	30.4	NA	52.6	NA	
Mercury by USEPA Method 7471B (mg/kg)																		
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	4.8	0.24	9.5	0.046	2.0	0.52	2.3	0.079	0.042	0.13	2.0	0.21	3.9	0.66	
Herbicides by USEPA Method 8151B (mg/kg)																		
2,4,5-T	NS	1.9	NS	0.040 U	NA	0.043 U	NA	0.042 U	NA	0.037 U	0.036 U	0.037 U	0.036 U	0.039 U	NA	0.038 U	NA	
2,4-D	NS	0.5	NS	0.040 U	NA	0.043 U	NA	0.042 U	NA	0.037 U	0.036 U	0.037 U	0.036 U	0.039 U	NA	0.038 U	NA	
Silvex (2,4,5-TP)	3.8	3.8	100	0.040 U	NA	0.043 U	NA	0.042 U	NA	0.037 U	0.036 U	0.037 U	0.036 U	0.039 U	NA	0.038 U	NA	
Pesticides by USEPA Method 8081B (mg/kg)																		
4,4'-DDD	0.0033	14	13	0.0080 U	NA	0.0087 U	NA	0.042 U	NA	0.0075 U	0.0072 U	0.0075 U	0.0072 U	0.039 U	NA	0.0076 U	NA	
4,4'-DDE	0.0033	17	8.9	0.0080 U	NA	0.0087 U	NA	0.042 U	NA	0.0075 U	0.0072 U	0.015	0.0072 U	0.039 U	NA	0.0047 J	NA	
4,4'-DDT	0.0033	136	7.9	0.0080 U	NA	0.017	NA	0.042 U	NA	0.0075 U	0.0072 U	0.016	0.0072 U	0.039 U	NA	0.0076 U	NA	
Aldrin	0.005	0.19	0.097	0.0080 U	NA	0.0087 U	NA	0.042 U	NA	0.0075 U	0.0072 U	0.0075 U	0.0072 U	0.039 U	NA	0.0076 U	NA	
alpha-BHC	0.02	0.02	0.48	0.0024 U	NA	0.0026 U	NA	0.013 U	NA	0.0022 U	0.0021 U	0.0022 U	0.0021 U	0.012 U	NA	0.0023 U	NA	
beta-BHC	0.036	0.09	0.36	0.0024 U	NA	0.0026 U	NA	0.013 U	NA	0.0022 U	0.0021 U	0.0022 U	0.0021 U	0.012 U	NA	0.0023 U	NA	
Chlordane (technical)	0.094	2.9	4.2	1.0	0.11	0.92	0.082 U	3.1	0.91	0.70	0.098	0.075 U	0.16	2.0	0.24	0.31	0.46	
delta-BHC	0.04	0.25	100	0.0024 U	NA	0.0026 U	NA	0.013 U	NA	0.0022 U	0.0021 U	0.0022 U	0.0021 U	0.012 U	NA	0.0023 U	NA	
Dieldrin	0.005	0.1	0.2	0.0024 U	NA	0.0026 U	NA	0.013 U	NA	0.0080	0.0021 U	0.0022 U	0.0021 U	0.012 U	NA	0.0023 U	NA	
Endosulfan I	2.4	102	24	0.0080 U	NA	0.0087 U	NA	0.042 U	NA	0.0075 U	0.0072 U	0.0075 U	0.0072 U	0.039 U	NA	0.0076 U	NA	
Endosulfan II	2.4	102	24	0.0080 U	NA	0.0087 U	NA	0.042 U	NA	0.0075 U	0.0072 U	0.0075 U	0.0072 U	0.039 U	NA	0.0076 U	NA	
Endosulfan sulfate	2.4	1000	24	0.0080 U	NA	0.0087 U	NA	0.042 U	NA	0.0075 U	0.0072 U	0.0075 U	0.0072 U	0.039 U	NA	0.0076 U	NA	
Endrin	0.014	0.06	11	0.0080 U	NA	0.0087 U	NA	0.042 U	NA	0.0075 U	0.0072 U	0.0075 U	0.0072 U	0.039 U	NA	0.0076 U	NA	
Endrin aldehyde	NS	NS	NS	0.0080 U	NA	0.0087 U	NA	0.042 U	NA	0.0075 U	0.0072 U	0.0075 U	0.0072 U	0.039 U	NA	0.0076 U	NA	
Endrin ketone	NS	NS	NS	0.0080 U	NA	0.0087 U	NA	0.042 U	NA	0.0075 U	0.0072 U	0.0075 U	0.0072 U	0.039 U	NA	0.0076 U	NA	
gamma-BHC (Lindane)	0.1	0.1	1.3	0.0024 U	NA	0.0026 U	NA	0.013 U	NA	0.0022 U	0.0021 U	0.0022 U	0.0021 U	0.012 U	NA	0.0023 U	NA	
Heptachlor	0.042	0.38	2.1	0.0080 U	NA	0.0087 U	NA	0.042 U	NA	0.0075 U	0.0072 U	0.0075 U	0.0072 U	0.039 U	NA	0.0076 U	NA	
Heptachlor epoxide	NS	0.02	NS	0.26	0.015	0.21	0.012	0.25	0.072	0.20	0.017	0.0075 U	0.0034 J	0.16	0.031	0.052	0.1	
Methoxychlor	NS	900	NS	0.0080 U	NA	0.0087 U	NA	0.042 U	NA	0.0075 U	0.0072 U	0.0075 U	0.0072 U	0.039 U	NA	0.0076 U	NA	
Toxaphene	NS	NS	NS	0.080 U	NA	0.087 U	NA	0.42 U	NA	0.075 U	0.072 U	0.075 U	0.072 U	0.39 U	NA	0.076 U	NA	

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted

<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objec

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the coi

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 4

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Us

Highlighted text denotes concentrations exceeding NYSDEC Protection of G

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Resi



Table 10

**Shallow Soil Sample Analytical Results - Fairways (VOCs)**  
**Island Hills Golf Course, Sayville, NY**

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Fairway SS-022 0 - 3" 460-156630-15 05/21/18
<b>Volatile Organic Compounds by USEPA method 8260C (mg/Kg)</b>				
1,1,1-Trichloroethane	0.68	0.68	100	0.0010 U
1,1,2,2-Tetrachloroethane	NS	0.6	NS	0.0010 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	6	NS	0.0010 U
1,1,2-Trichloroethane	NS	NS	NS	0.0010 U
1,1-Dichloroethane	0.27	0.27	26	0.0010 U
1,1-Dichloroethene	0.33	0.33	100	0.0010 U
1,2,3-Trichlorobenzene	NS	NS	NS	0.0010 U
1,2,4-Trichlorobenzene	NS	3.4	NS	0.0010 U
1,2-Dibromo-3-Chloropropane	NS	NS	NS	0.0010 U
1,2-Dichlorobenzene	1.1	1.1	100	0.0010 U
1,2-Dichloroethane	0.02	0.02	3.1	0.0010 U
1,2-Dichloropropane	NS	NS	NS	0.0010 U
1,3-Dichlorobenzene	2.4	2.4	49	0.0010 U
1,4-Dichlorobenzene	1.8	1.8	13	0.0010 U
1,4-Dioxane	0.1	0.1	13	0.021 U
2-Butanone (MEK)	0.12	0.3	100	0.0052 U
2-Hexanone	NS	NS	NS	0.0052 U
4-Methyl-2-pentanone (MIBK)	NS	1	NS	0.0052 U
Acetone	0.05	0.05	100	0.0052 U
Benzene	0.06	0.06	4.8	0.0010 U
Bromoform	NS	NS	NS	0.0010 U
Bromomethane	NS	NS	NS	0.0010 U
Carbon disulfide	NS	2.7	NS	0.0010 U
Carbon tetrachloride	0.76	0.76	2.4	0.0010 U
Chlorobenzene	1.1	1.1	100	0.0010 U
Chlorobromomethane	NS	NS	NS	0.0010 U
Chlorodibromomethane	NS	NS	NS	0.0010 U
Chloroethane	NS	1.9	NS	0.0010 U
Chloroform	0.37	0.37	49	0.0010 U
Chloromethane	NS	NS	NS	0.0010 U
cis-1,2-Dichloroethene	0.25	0.25	100	0.0010 U
cis-1,3-Dichloropropene	NS	NS	NS	0.0010 U
Cyclohexane	NS	NS	NS	0.0010 U
Dichlorobromomethane	NS	NS	NS	0.0010 U
Dichlorodifluoromethane	NS	NS	NS	0.0010 U
Ethylbenzene	1	1	41	0.0010 U
Ethylene Dibromide	NS	NS	NS	0.0010 U
Isopropylbenzene	NS	2.3	NS	0.0010 U
Methyl acetate	NS	NS	NS	0.0052 U
Methyl tert-butyl ether	0.93	0.93	100	0.0010 U
Methylcyclohexane	NS	NS	NS	0.0010 U
Methylene Chloride	0.05	0.05	100	0.00047 J B
m-Xylene & p-Xylene	0.26	NS	NS	0.0010 U
o-Xylene	0.26	NS	NS	0.0010 U
Styrene	NS	NS	NS	0.0010 U
Tetrachloroethene	1.3	1.3	19	0.0010 U
Toluene	0.7	0.7	100	0.0010 U
trans-1,2-Dichloroethene	0.19	0.19	100	0.0010 U
trans-1,3-Dichloropropene	NS	NS	NS	0.0010 U
Trichloroethene	0.47	0.47	21	0.0010 U
Trichlorofluoromethane	NS	NS	NS	0.0010 U
Vinyl chloride	0.02	0.02	0.9	0.0010 U
Total Conc	NS	NS	NS	0.00047

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 11

## Shallow Soil Sample Analytical Results - Fairways (SVOCs)

Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Fairway SS-022 0 - 3" 460-156630-15 05/21/18
<b>Semi-Volatile Organic Compounds by USEPA method 8270D (mg/Kg)</b>				
1,1'-Biphenyl	NS	NS	NS	0.3900 U
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	0.3900 U
2,2'-oxybis[1-chloropropane]	NS	NS	NS	0.3900 U
2,3,4,6-Tetrachlorophenol	NS	NS	NS	0.390 U
2,4,5-Trichlorophenol	NS	0.1	NS	0.390 U
2,4,6-Trichlorophenol	NS	NS	NS	0.160 U
2,4-Dichlorophenol	NS	0.4	NS	0.1600 U
2,4-Dimethylphenol	NS	NS	NS	0.390 U
2,4-Dinitrophenol	NS	0.2	NS	0.32 U
2,4-Dinitrotoluene	NS	NS	NS	0.08 U
2,6-Dinitrotoluene	NS	NS	NS	0.08 U
2-Chloronaphthalene	NS	NS	NS	0.39 U
2-Chlorophenol	NS	NS	NS	0.39 U
2-Methylnaphthalene	NS	36.4	NS	0.39 U
2-Methylphenol	0.33	0.33	100	0.39 U
2-Nitroaniline	NS	0.4	NS	0.39 U
2-Nitrophenol	NS	0.3	NS	0.39 U
3,3'-Dichlorobenzidine	NS	NS	NS	0.16 U
3-Nitroaniline	NS	0.5	NS	0.39 U
4,6-Dinitro-2-methylphenol	NS	NS	NS	0.32 U
4-Bromophenyl phenyl ether	NS	NS	NS	0.39 U
4-Chloro-3-methylphenol	NS	NS	NS	0.39 U
4-Chloroaniline	NS	0.22	NS	0.39 U
4-Chlorophenyl phenyl ether	NS	NS	NS	0.39 U
4-Methylphenol	0.33	0.33	100	0.39 U
4-Nitroaniline	NS	NS	NS	0.39 U
4-Nitrophenol	NS	0.1	NS	0.8 U
Acenaphthene	20	98	100	0.39 U
Acenaphthylene	100	107	100	0.39 U
Acetophenone	NS	NS	NS	0.39 U
Anthracene	100	1000	100	0.053 J
Atrazine	NS	NS	NS	0.16 U
Benzaldehyde	NS	NS	NS	0.021 J
Benzo[a]anthracene	1	1	1	0.49
Benzo[a]pyrene	1	22	1	0.56
Benzo[b]fluoranthene	1	1.7	1	0.8
Benzo[g,h,i]perylene	100	1000	100	0.33 J
Benzo[k]fluoranthene	0.8	1.7	3.9	0.039 U
Bis(2-chloroethoxy)methane	NS	NS	NS	0.39 U
Bis(2-chloroethyl)ether	NS	NS	NS	0.039 U
Bis(2-ethylhexyl) phthalate	NS	435	NS	0.39 U
Butyl benzyl phthalate	NS	122	NS	0.39 U
Caprolactam	NS	NS	NS	0.39 U
Carbazole	NS	NS	NS	0.058 J
Chrysene	1	1	3.9	0.65
Dibenz(a,h)anthracene	0.33	1000	0.33	0.12
Dibenzofuran	7	6.2	59	0.39 U
Diethyl phthalate	NS	7.1	NS	0.39 U
Dimethyl phthalate	NS	27	NS	0.39 U
Di-n-butyl phthalate	NS	8.1	NS	0.39 U
Di-n-octyl phthalate	NS	120	NS	0.39 U
Fluoranthene	100	1000	100	0.71
Fluorene	30	386	100	0.39 U
Hexachlorobenzene	0.33	1.4	1.2	0.039 U
Hexachlorobutadiene	NS	NS	NS	0.08 U
Hexachlorocyclopentadiene	NS	NS	NS	0.39 U
Hexachloroethane	NS	NS	NS	0.039 U
Indeno[1,2,3-cd]pyrene	0.5	8.2	0.5	0.37
Isophorone	NS	4.4	NS	0.16 U
Naphthalene	12	12	100	0.39 U
Nitrobenzene	NS	0.17	NS	0.039 U
N-Nitrosodi-n-propylamine	NS	NS	NS	0.039 U
N-Nitrosodiphenylamine	NS	NS	NS	0.39 U
Pentachlorophenol	0.8	0.8	6.7	0.32 U
Phenanthrene	100	1000	100	0.27 J
Phenol	0.33	0.33	100	0.39 U
Pyrene	100	1000	100	0.72
Total Conc	NS	NS	NS	5.152

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective 1a

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is &gt; 40%. The lower value has been

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 12

**Shallow Soil Sample Analytical Results - Fairways (PCBs)**  
**Island Hills Golf Course, Sayville, NY**

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Fairway SS-022 0 - 3" 460-156630-15 05/21/18
<b>Polychlorinated biphenyls by USEPA method 8082A (mg/Kg)</b>				
Aroclor 1016	NS	NS	NS	0.0800 U
Aroclor 1221	NS	NS	NS	0.0800 U
Aroclor 1232	NS	NS	NS	0.0800 U
Aroclor 1242	NS	NS	NS	0.0800 U
Aroclor 1248	NS	NS	NS	0.0800 U
Aroclor 1254	NS	NS	NS	0.0800 U
Aroclor 1260	NS	NS	NS	0.0800 U
Aroclor 1268	NS	NS	NS	0.0800 U
Aroclor-1262	NS	NS	NS	0.0800 U
Polychlorinated biphenyls, Total	0.1	3.2	1	0.0800 U

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 3

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 13

**Shallow Soil Sample Analytical Results - Driving Range (Metals, Pesticides, Herbicides)**  
**Island Hills Golf Course, Sayville, NY**

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Driving Range SS-041 0 - 3" 460-156722-32 05/22/18	Driving Range SS-041 18 - 24" 460-156722-33 05/22/18
<b>Metals by USEPA Method 6010C (mg/kg)</b>					
Aluminum	NS	NS	NS	1590	3450
Antimony	NS	NS	NS	4.7 U	4.5 U
Arsenic	13	16	16	1.1 J	3.4 U
Barium	350	820	400	6.6 J	4.2 J
Beryllium	7.2	47	72	0.068 J	0.10 J
Cadmium	2.5	7.5	4.3	0.93 U	0.90 U
Calcium	NS	NS	NS	179 J	1130 U
Chromium	30	NS	180	4.5	4.1
Cobalt	NS	NS	NS	11.7 U	11.3 U
Copper	50	1720	270	3.0 J	2.5 J
Iron	NS	NS	NS	2780	4740
Lead	63	450	400	16.4	2.6
Magnesium	NS	NS	NS	157 J	138 J
Manganese	1600	2000	2000	56.7	27.6
Nickel	30	130	310	1.1 J	2.4 J
Potassium	NS	NS	NS	1170 U	1130 U
Selenium	3.9	4	180	4.7 U	4.5 U
Silver	2	8.3	180	2.3 U	2.3 U
Sodium	NS	NS	NS	1170 U	1130 U
Thallium	NS	NS	NS	4.7 U	4.5 U
Vanadium	NS	NS	NS	6.5 J	7.4 J
Zinc	109	2480	10000	8.5	9.3
<b>Mercury by USEPA Method 7471B (mg/kg)</b>					
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	0.86	0.073
<b>Herbicides by USEPA Method 8151B (mg/kg)</b>					
2,4,5-T	NS	1.9	NS	0.040 U	0.037 U
2,4-D	NS	0.5	NS	0.040 U	0.037 U
Silvex (2,4,5-TP)	3.8	3.8	100	0.040 U	0.037 U
<b>Pesticides by USEPA Method 8081B (mg/kg)</b>					
4,4'-DDD	0.0033	14	13	0.0081 U	0.0075 U
4,4'-DDE	0.0033	17	8.9	0.0081 U	0.0075 U
4,4'-DDT	0.0033	136	7.9	0.0081 U	0.0075 U
Aldrin	0.005	0.19	0.097	0.0081 U	0.0075 U
alpha-BHC	0.02	0.02	0.48	0.0024 U	0.0023 U
beta-BHC	0.036	0.09	0.36	0.0024 U	0.0023 U
Chlordane (technical)	0.094	2.9	4.2	0.081 U	0.075 U
delta-BHC	0.04	0.25	100	0.0024 U	0.0023 U
Dieldrin	0.005	0.1	0.2	0.0024 U	0.0023 U
Endosulfan I	2.4	102	24	0.0081 U	0.0075 U
Endosulfan II	2.4	102	24	0.0081 U	0.0075 U
Endosulfan sulfate	2.4	1000	24	0.0081 U	0.0075 U
Endrin	0.014	0.06	11	0.0081 U	0.0075 U
Endrin aldehyde	NS	NS	NS	0.0081 U	0.0075 U
Endrin ketone	NS	NS	NS	0.0081 U	0.0075 U
gamma-BHC (Lindane)	0.1	0.1	1.3	0.0024 U	0.0023 U
Heptachlor	0.042	0.38	2.1	0.0081 U	0.0075 U
Heptachlor epoxide	NS	0.02	NS	0.0081 U	0.0075 U
Methoxychlor	NS	900	NS	0.0081 U	0.0075 U
Toxaphene	NS	NS	NS	0.081 U	0.075 U

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b

<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objectives Technical Support Document, Tables 5.6-

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 14

Shallow Soil Sample Analytical Results - Rough (Metals, Pesticides, Herbicides)  
Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Rough SS-003 0 - 3" 460-156541-3 05/18/2018	Rough SS-006 0 - 3" 460-156541-7 05/18/2018	Rough SS-006 18 - 24" 460-156722-60 05/22/18	Rough SS-016 0 - 3" 460-156630-7 05/21/18	Rough SS-017 0 - 3" 460-156630-8 05/21/18	Rough SS-017 18 - 24" 460-156630-9 05/21/18	Rough SS-020 0 - 3" 460-156630-12 05/21/18	Rough SS-032 0 - 3" 460-156722-10 05/22/18	Rough SS-037 0 - 3" 460-156722-17 05/22/18	Rough SS-040 0 - 3" 460-156722-31 05/22/18	Rough SS-043 0 - 3" 460-156722-35 05/22/18	Rough SS-043 18 - 24" 460-156722-36 05/22/18
Metals by USEPA Method 6010C (mg/kg)															
Aluminum	NS	NS	NS	5900	2660	NA	5880	6380	1820	1600	5210	3550	2230	1980	3350
Antimony	NS	NS	NS	0.77 J	0.57 J	NA	5.4 U	4.7 U	4.6 U	4.5 U	5.3 U	4.5 U	4.5 U	4.4 U	4.2 U
Arsenic	13	16	16	2.6 J	0.86 J	NA	2.8 J	1.6 J	1.5 J	2.1 J	2.9 J	3.8	1.7 J	1.7 J	3.2 U
Barium	350	820	400	11.9 J	10.9 J	NA	9.5 J	9.5 J	17.1 J	14.0 J	355	12.1 J	8.3 J	4.0 J	3.5 J
Beryllium	7.2	47	72	0.058 U	0.053 U	NA	0.16 J	0.18 J	0.14 J	0.11 J	0.64	0.14 J	0.083 J	0.060 J	0.090 J
Cadmium	2.5	7.5	4.3	0.15 U	1.0	NA	1.1 U	1.1 U	0.94 U	0.95 U	1.1 U	0.89 U	0.90 U	0.87 U	0.84 U
Calcium	NS	NS	NS	534 J	695 J	NA	445 J	441 J	176 J	600 J	497 J	774 J	319 J	129 J	1050 U
Chromium	30	NS	180	6.5	14.2	NA	7.9	6.5	7.0	10.6	7.8	5.8	3.9	4.1	5.0
Cobalt	NS	NS	NS	1.4 U	1.3 U	NA	14.3 U	13.4 U	11.8 U	2.6 J	6.0 J	11.1 U	11.2 U	1.9 J	2.8 J
Copper	50	1720	270	5.5 J	8.6	NA	4.8 J	2.8 J	1.7 J	4.9 J	10.4	5.7	2.9 J	4.1 J	3.8 J
Iron	NS	NS	NS	8060	4730	NA	9140	6920	6790	10700	6700	5790	4180	4340	4750
Lead	63	450	400	22.7	7.7	NA	22.3	17.3	6.0	16.8	24.6	27.6	20.6	19.9	5.1
Magnesium	NS	NS	NS	552 J	454 J	NA	606 J	470 J	537 J	1070 J	361 J	364 J	209 J	95.6 J	113 J
Manganese	1600	2000	2000	27.1	143	NA	57.3	29.2	31.7	75.8	1070	113	215	189	169
Nickel	30	130	310	3.8 J	2.6 J	NA	4.0 J	2.9 J	3.3 J	6.1 J	5.9 J	2.5 J	1.4 J	1.6 J	3.6 J
Potassium	NS	NS	NS	257 J	210 J	NA	209 J	144 J	130 J	232 J	109 J	146 J	69.3 J	1090 U	1050 U
Selenium	3.9	4	180	1.5 U	1.4 U	NA	5.7 U	5.4 U	4.7 U	4.7 U	5.3 U	4.5 U	4.5 U	4.4 U	4.2 U
Silver	2	8.3	180	0.38 U	0.35 U	NA	2.9 U	2.7 U	2.4 U	2.4 U	2.6 U	2.2 U	2.2 U	2.2 U	2.1 U
Sodium	NS	NS	NS	96.3 U	88.2 U	NA	1430 U	1340 U	1180 U	1180 U	1320 U	1110 U	1120 U	1090 U	1050 U
Thallium	NS	NS	NS	1.5 U	1.4 U	NA	5.7 U	5.4 U	4.7 U	4.7 U	5.3 U	4.5 U	4.5 U	4.4 U	4.2 U
Vanadium	NS	NS	NS	16.6	7.8 J	NA	17.4	13.1 J	11.3 J	18.6	17.9	12.1	9.4 J	11.0	7.2 J
Zinc	109	2480	10000	13.7	37.2	NA	18.5	12.9	8.7	20.1	27.6	17.5	12.4	8.0	10.0
Mercury by USEPA Method 7471B (mg/kg)															
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	0.23	3.0	0.25	0.046	0.14	0.026	0.051	0.088	0.18	0.037	0.042	0.033
Herbicides by USEPA Method 8151B (mg/kg)															
2,4,5-T	NS	1.9	NS	0.0089 U	0.0083 U	NA	0.048 U	0.046 U	0.040 U	0.041 U	0.044 U	0.038 U	0.038 U	0.037 U	0.035 U
2,4-D	NS	0.5	NS	0.015 U	0.014 U	NA	0.048 U	0.046 U	0.040 U	0.041 U	0.044 U	0.038 U	0.038 U	0.037 U	0.035 U
Silvex (2,4,5-TP)	3.8	3.8	100	0.0044 U	0.0041 U	NA	0.048 U	0.046 U	0.040 U	0.041 U	0.044 U	0.038 U	0.038 U	0.037 U	0.035 U
Pesticides by USEPA Method 8081B (mg/kg)															
4,4'-DDD	0.0033	14	13	0.0014 U	0.0027 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0076 U	0.0074 U	0.0071 U
4,4'-DDE	0.0033	17	8.9	0.0026 J	0.0019 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0076 U	0.0074 U	0.0071 U
4,4'-DDT	0.0033	136	7.9	0.0016 U	0.0029 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0038 J	0.0074 U	0.0071 U
Aldrin	0.005	0.19	0.097	0.0013 U	0.0024 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0076 U	0.0074 U	0.0071 U
alpha-BHC	0.02	0.02	0.48	0.00086 U	0.0016 U	NA	0.0029 U	0.0028 U	0.0024 U	0.0025 U	0.0027 U	0.0023 U	0.0023 U	0.0022 U	0.0021 U
beta-BHC	0.036	0.09	0.36	0.00095 U	0.0018 U	NA	0.0029 U	0.0028 U	0.0024 U	0.0025 U	0.0027 U	0.0023 U	0.0023 U	0.0022 U	0.0021 U
Chlordane (technical)	0.094	2.9	4.2	0.020 U	1.7	0.15 P	0.097 U	0.092 U	0.081 U	0.082 U	0.089 U	0.076 U	0.076 U	0.074 U	0.071 U
delta-BHC	0.04	0.25	100	0.00052 U	0.00097 U	NA	0.0029 U	0.0028 U	0.0024 U	0.0025 U	0.0027 U	0.0023 U	0.0023 U	0.0022 U	0.0021 U
Dieldrin	0.005	0.1	0.2	0.0011 U	0.0020 U	NA	0.0029 U	0.0028 U	0.0024 U	0.0025 U	0.0027 U	0.0023 U	0.0023 U	0.0022 U	0.0021 U
Endosulfan I	2.4	102	24	0.0013 U	0.0024 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0076 U	0.0074 U	0.0071 U
Endosulfan II	2.4	102	24	0.0022 U	0.0041 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0076 U	0.0074 U	0.0071 U
Endosulfan sulfate	2.4	1000	24	0.0011 U	0.0020 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0076 U	0.0074 U	0.0071 U
Endrin	0.014	0.06	11	0.0012 U	0.0023 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0076 U	0.0074 U	0.0071 U
Endrin aldehyde	NS	NS	NS	0.0020 U	0.0037 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0076 U	0.0074 U	0.0071 U
Endrin ketone	NS	NS	NS	0.0016 U	0.0031 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0076 U	0.0074 U	0.0071 U
gamma-BHC (Lindane)	0.1	0.1	1.3	0.00078 U	0.0015 U	NA	0.0029 U	0.0028 U	0.0024 U	0.0025 U	0.0027 U	0.0023 U	0.0023 U	0.0022 U	0.0021 U
Heptachlor	0.042	0.38	2.1	0.0010 U	0.0019 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0076 U	0.0074 U	0.0071 U
Heptachlor epoxide	NS	0.02	NS	0.0013 U	0.053	0.021	0.0097 U	0.0061 J	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.015	0.0076	0.0071 U
Methoxychlor	NS	900	NS	0.0019 U	0.0036 U	NA	0.0097 U	0.0092 U	0.0081 U	0.0082 U	0.0089 U	0.0076 U	0.0076 U	0.0074 U	0.0071 U
Toxaphene	NS	NS	NS	0.031 U	0.057 U	NA	0.097 U	0.092 U	0.081 U	0.082 U	0.089 U	0.076 U	0.076 U	0.074 U	0.071 U

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a  
<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restrcted Use Soil Cleanup Objective Table 375-6.8b  
<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objectives Technical Support Document, Tables 5.6-1 and 7-2, September 2006  
NS - No Standard  
NA - Not Analyzed  
J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
U : Indicates the analyte was analyzed for but not detected.  
F1 : MS and/or MSD Recovery is outside acceptance limits.  
F2 : MS/MSD RPD exceeds control limits  
B : Compound was found in the blank and sample.  
P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported  
\* : LCS or LCSD is outside acceptance limits.  
Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria  
Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria  
Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 15

Shallow Soil Sample Analytical Results - Woods (Metals, Pesticides, Herbicides)  
Island Hills Golf Course, Sayville, NY

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Woods SS-011 0 - 3" 460-156630-1 05/21/18	Woods SS-011 18 - 24" 460-156630-2 05/21/18	Woods SS-013 0 - 3" 460-156630-4 05/21/18	Woods SS-024 0 - 3" 460-156630-18 05/21/18	Woods SS-029 0 - 3" 460-156722-6 05/22/18	Woods SS-030 0 - 3" 460-156722-7 05/22/18	Woods SS-031 0 - 3" 460-156722-8 05/22/18	Woods SS-031 18 - 24" 460-156722-9 05/22/18	Woods SS-045 0 - 3" 460-156722-38 05/22/18	Woods SS-046 0 - 3" 460-158175-13 06/12/18	Woods SS-047 0 - 3" 460-158175-14 06/12/18	Woods SS-048 0 - 3" 460-158175-19 06/12/18	Woods SS-049 0 - 3" 460-158175-2 06/12/18	Woods SS-050 0 - 3" 460-158175-3 06/12/18	Woods SS-051 0 - 3" 460-158175-6 06/12/18	Woods SS-053 0 - 3" 460-158175-21 06/12/18	Woods SS-055 0 - 3" 460-158175-30 06/12/18	Woods SS-056 0 - 3" 460-158175-31 06/12/18	Woods SS-058 0 - 3" 460-158175-38 06/12/18
Metals by USEPA Method 6010C (mg/kg)																						
Aluminum	NS	NS	NS	3580	7290	4660	2540	3620	1650	1230	5390	2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NS	NS	NS	4.3 U	6.4 U	4.8 U	0.5 U	4.7 U	5.1 U	6.5 U	4.6 U	4.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	16	16	2.4 J	3.6 J	2.4 J	0.93 J	1.5 J	2.1 J	4.8 U	0.94 J	1.1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	350	820	400	26 J	18.1 J	16.6 J	4.8 J	15.3 J	8.1 J	13.6 J	7 J	11.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	47	72	0.22 J	0.23 J	0.17 J	0.095 J	0.17 J	0.091 J	0.65 U	0.13 J	0.096 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	7.5	4.3	0.86 U	0.86 U	1.1 U	0.12 U	0.93 U	1 U	0.22 J	0.93 U	0.97 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NS	NS	NS	15900	7780 F1	192 J	128 J	207 J	428 J	885 J	1160 U	360 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	30	NS	180	9.4	7	9.2	3.1	6.4	2.9	2 J	5.3	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NS	NS	NS	2.1 J	2 J	14.2 U	4.5 J	1.3 J	12.7 U	16.2 U	11.6 U	12.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	50	1720	270	11.9	9	3.5 J	3.1 J	13.3	4.7 J	4.2 J	2 J	5.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NS	NS	NS	6540	5860	8510	3970	5800	3790	1870	7180	4590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	63	450	400	38.4	27.6	11.7	3.3	11.7	22.2	13.9	7.6	44.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NS	NS	NS	2990	1250	688 J	236 J	588 J	208 J	209 J	336 J	192 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	2000	2000	89.4	135 F1	36.6	260	51	44.4	25.1	19	42.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	30	130	310	6.7 J	4.7 J	4.2 J	3.4 J	3.2 J	1.8 J	1.7 J	2 J	3.2 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NS	NS	NS	348 J	269 J	211 J	68.6 J	164 J	130 J	149 J	145 J	110 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	4	180	4.3 U	4.3 U	5.7 U	1.3 U	4.7 U	5.1 U	6.5 U	4.6 U	4.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	2	8.3	180	2.2 U	2.1 U	2.8 U	0.32 U	2.3 U	2.5 U	3.2 U	2.3 U	2.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NS	NS	NS	1080 U	1070 U	1420 U	80.2 U	1170 U	1270 U	1620 U	1160 U	1210 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NS	NS	NS	4.3 U	4.3 U	5.7 U	1.2 U	4.7 U	5.1 U	6.5 U	4.6 U	4.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NS	NS	NS	12.9	10.4 J	17.3	5.3 J	10.1 J	11.9 J	6.6 J	12.5	13.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	109	2480	10000	44.6	31.7	13.5	9.6	49.9	7.5 J	16.8	5.6 J	20.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury by USEPA Method 7471B (mg/kg)																						
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	0.28	0.12	0.05	0.2	0.043	0.11	0.06	0.024	0.078	0.19	0.053	0.14	0.040	0.35	0.12	0.016 U	0.19	0.067	0.17
Herbicides by USEPA Method 8151B (mg/kg)																						
2,4,5-T	NS	1.9	NS	0.036 U	0.036 U	0.049 U	0.036 U	0.04 U	0.043 U	0.054 U	0.04 U	0.041 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	NS	0.5	NS	0.036 U	0.036 U	0.049 U	0.036 U	0.04 U	0.043 U	0.054 U	0.04 U	0.041 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex (2,4,5-TP)	3.8	3.8	100	0.036 U	0.036 U	0.049 U	0.036 U	0.04 U	0.043 U	0.054 U	0.04 U	0.041 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides by USEPA Method 8081B (mg/kg)																						
4,4'-DDD	0.0033	14	13	0.0073 U	0.0072 U	0.0098 U	0.0072 U	0.0079 U	0.0087 U	0.011 U	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
4,4'-DDE	0.0033	17	8.9	0.0073 U F1	0.0072 U	0.0098 U	0.0072 U	0.0067 J	0.0087 U	0.0096 J	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
4,4'-DDT	0.0033	136	7.9	0.0039 J F1	0.059	0.0098 U	0.0072 U	0.0067 J	0.0051 J	0.012	0.008 U	0.0083 U	0.008	0.0044 J	0.005 J	0.0078 U	0.0077 U	0.018	0.007 U	0.0049 J	0.011	0.0075 U
Aldrin	0.005	0.19	0.097	0.0073 U	0.0072 U	0.0098 U	0.0072 U	0.0079 U	0.0087 U	0.011 U	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
alpha-BHC	0.02	0.02	0.48	0.0022 U	0.0021 U	0.0029 U	0.0021 U	0.0024 U	0.0026 U	0.0033 U	0.0024 U	0.0025 U	0.0022 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0026 U	0.0021 U	0.0024 U	0.0023 U	0.0022 U
beta-BHC	0.036	0.09	0.36	0.0022 U F1	0.0021 U	0.0029 U	0.0021 U	0.0024 U	0.0026 U	0.0033 U	0.0024 U	0.0025 U	0.0022 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0026 U	0.0021 U	0.0024 U	0.0023 U	0.0022 U
Chlordane (technical)	0.094	2.9	4.2	0.11	0.28	0.098 U	0.072 U	0.079 U	0.087 U	0.11 U	0.08 U	0.083 U	0.074 U	0.073 U	0.078 U	0.078 U	0.077 U	0.086 U	0.07 U	0.079 U	0.079 U	0.075 U
delta-BHC	0.04	0.25	100	0.0022 U	0.0021 U	0.0029 U	0.0021 U	0.0024 U	0.0026 U	0.0033 U	0.0024 U	0.0025 U	0.0022 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0026 U	0.0021 U	0.0024 U	0.0023 U	0.0022 U
Dieldrin	0.005	0.1	0.2	0.0076 F1	0.0021 U	0.0029 U	0.0021 U	0.0024 U	0.0026 U	0.0033 U	0.0024 U	0.0025 U	0.0022 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0026 U	0.0021 U	0.0024 U	0.0023 U	0.0022 U
Endosulfan I	2.4	102	24	0.0073 U F1	0.0072 U	0.0098 U	0.0072 U	0.0079 U	0.0087 U	0.011 U	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
Endosulfan II	2.4	102	24	0.0073 U F1	0.0072 U	0.0098 U	0.0072 U	0.0079 U	0.0087 U	0.011 U	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
Endosulfan sulfate	2.4	1000	24	0.0073 U F1	0.0072 U	0.0098 U	0.0072 U	0.0079 U	0.0087 U	0.011 U	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
Endrin	0.014	0.06	11	0.0073 U F1	0.0072 U	0.0098 U	0.0072 U	0.0079 U	0.0087 U	0.011 U	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
Endrin aldehyde	NS	NS	NS	0.0073 U F1	0.0072 U	0.0098 U	0.0072 U	0.0079 U	0.0087 U	0.011 U	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
Endrin ketone	NS	NS	NS	0.0073 U F1	0.0072 U	0.0098 U	0.0072 U	0.0079 U	0.0087 U	0.011 U	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
gamma-BHC (Lindane)	0.1	0.1	1.3	0.0022 U	0.0021 U	0.0029 U	0.0021 U	0.0024 U	0.0026 U	0.0033 U	0.0024 U	0.0025 U	0.0022 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0026 U	0.0021 U	0.0024 U	0.0023 U	0.0022 U
Heptachlor	0.042	0.38	2.1	0.0073 U	0.0072 U	0.0098 U	0.0072 U	0.0079 U	0.0087 U	0.011 U	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
Heptachlor epoxide	NS	0.02	NS	0.0029 J F1	0.004 J	0.0098 U	0.0072 U	0.0079 U	0.0087 U	0.011 U	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
Methoxychlor	NS	900	NS	0.0073 U	0.0072 U	0.0098 U	0.0072 U	0.0079 U	0.0087 U	0.011 U	0.008 U	0.0083 U	0.0074 U	0.0073 U	0.0078 U	0.0078 U	0.0077 U	0.0086 U	0.007 U	0.0079 U	0.0079 U	0.0075 U
Toxaphene	NS	NS	NS	0.073 U	0.072 U	0.098 U	0.072 U	0.079 U	0.087 U	0.11 U	0.08 U	0.083 U	0.074 U	0.073 U	0.078 U	0.078 U	0.077 U	0.086 U	0.07 U	0.079 U	0.079 U	0.075 U

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a  
<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restrcted Use Soil Cleanup Objective Table 375-6.8b  
<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objectives Technical Support Document, Tables 5.6-1 and 7-2, September 2006  
NS - No Standard  
NA - Not Analyzed  
J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
U : Indicates the analyte was analyzed for but not detected.  
F1 : MS and/or MSD Recovery is outside acceptance limits.  
F2 : MS/MSD RPD exceeds control limits  
B : Compound was found in the blank and sample.  
P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported  
\* : LCS or LCSD is outside acceptance limits.  
Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria  
Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria  
Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 16

**Shallow Soil Sample Analytical Results - Woods (VOCs)**  
**Island Hills Golf Course, Sayville, NY**

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Woods SS-011 0 - 3" 460-156630-1 05/21/18	Woods SS-011 18" - 24" 460-156630-2 05/21/18	Woods SS-024 0 - 3" 460-156630-3 05/21/18
<b>Volatile Organic Compounds by USEPA method 8260C (mg/Kg)</b>						
1,1,1-Trichloroethane	0.68	0.68	100	0.00077 U	0.00088 U	0.00084 U
1,1,2,2-Tetrachloroethane	NS	0.6	NS	0.00077 U *	0.00088 U	0.00084 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	6	NS	0.00077 U	0.00088 U	0.00084 U
1,1,2-Trichloroethane	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
1,1-Dichloroethane	0.27	0.27	26	0.00077 U	0.00088 U	0.00084 U
1,1-Dichloroethene	0.33	0.33	100	0.00077 U	0.00088 U	0.00084 U
1,2,3-Trichlorobenzene	NS	NS	NS	0.00077 U *	0.00088 U	0.00084 U
1,2,4-Trichlorobenzene	NS	3.4	NS	0.00077 U *	0.00088 U	0.00084 U
1,2-Dibromo-3-Chloropropane	NS	NS	NS	0.00077 U *	0.00088 U	0.00084 U
1,2-Dichlorobenzene	1.1	1.1	100	0.00077 U *	0.00088 U	0.00084 U
1,2-Dichloroethane	0.02	0.02	3.1	0.00077 U	0.00088 U	0.00084 U
1,2-Dichloropropane	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
1,3-Dichlorobenzene	2.4	2.4	49	0.00077 U *	0.00088 U	0.00084 U
1,4-Dichlorobenzene	1.8	1.8	13	0.00077 U *	0.00088 U	0.00084 U
1,4-Dioxane	0.1	0.1	13	0.015 U	0.018 U	0.017 U
2-Butanone (MEK)	0.12	0.3	100	0.0039 U	0.0044 U	0.0042 U
2-Hexanone	NS	NS	NS	0.0039 U	0.0044 U	0.0042 U
4-Methyl-2-pentanone (MIBK)	NS	1	NS	0.0039 U	0.0044 U	0.0042 U
Acetone	0.05	0.05	100	0.0039 U	0.0054 U	0.0042 U
Benzene	0.06	0.06	4.8	0.00077 U	0.00088 U	0.00084 U
Bromoform	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Bromomethane	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Carbon disulfide	NS	2.7	NS	0.00077 U	0.00088 U	0.00084 U
Carbon tetrachloride	0.76	0.76	2.4	0.00077 U	0.00088 U	0.00084 U
Chlorobenzene	1.1	1.1	100	0.00077 U	0.00088 U	0.00084 U
Chlorobromomethane	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Chlorodibromomethane	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Chloroethane	NS	1.9	NS	0.00077 U	0.00088 U	0.00084 U
Chloroform	0.37	0.37	49	0.00077 U	0.00088 U	0.00084 U
Chloromethane	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
cis-1,2-Dichloroethene	0.25	0.25	100	0.00077 U	0.00088 U	0.00084 U
cis-1,3-Dichloropropene	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Cyclohexane	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Dichlorobromomethane	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Dichlorodifluoromethane	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Ethylbenzene	1	1	41	0.00077 U	0.00088 U	0.00084 U
Ethylene Dibromide	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Isopropylbenzene	NS	2.3	NS	0.00077 U	0.00088 U	0.00084 U
Methyl acetate	NS	NS	NS	0.0039 U	0.0044 U	0.0042 U
Methyl tert-butyl ether	0.93	0.93	100	0.00077 U	0.00088 U	0.00084 U
Methylcyclohexane	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Methylene Chloride	0.05	0.05	100	0.00071 J B	0.00083 J B	0.0011 B
m-Xylene & p-Xylene	0.26	NS	NS	0.00023 J	0.00026 J	0.00042 J
o-Xylene	0.26	NS	NS	0.000094 J	0.000096 J	0.00015 J
Styrene	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Tetrachloroethene	1.3	1.3	19	0.00075 J	0.00088 U	0.00084 U
Toluene	0.7	0.7	100	0.00077 U	0.00088 U	0.00084 U
trans-1,2-Dichloroethene	0.19	0.19	100	0.00077 U	0.00088 U	0.00084 U
trans-1,3-Dichloropropene	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Trichloroethene	0.47	0.47	21	0.00077 U	0.00088 U	0.00084 U
Trichlorofluoromethane	NS	NS	NS	0.00077 U	0.00088 U	0.00084 U
Vinyl chloride	0.02	0.02	0.9	0.00077 U	0.00088 U	0.00084 U
Total Conc	NS	NS	NS	0.00178	0.00659	0.00167

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 17

**Shallow Soil Sample Analytical Results - Woods (SVOCs)**  
**Island Hills Golf Course, Sayville, NY**

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Woods SS-011 0 - 3" 460-156630-1 05/21/18	Woods SS-011 18" - 24" 460-156630-2 05/21/18	Woods SS-024 0 - 3" 460-156630-18 05/21/18
<b>Semi-Volatile Organic Compounds by USEPA method 8270D (mg/Kg)</b>						
1,1'-Biphenyl	NS	NS	NS	0.36 U	0.3500 U	0.3500 U
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	0.36 U	0.3500 U	0.3500 U
2,2'-oxybis[1-chloropropane]	NS	NS	NS	0.36 U	0.3500 U	0.3500 U
2,3,4,6-Tetrachlorophenol	NS	NS	NS	0.36 U	0.350 U	0.3500 U
2,4,5-Trichlorophenol	NS	0.1	NS	0.36 U	0.350 U	0.3500 U
2,4,6-Trichlorophenol	NS	NS	NS	0.14 U	0.140 U	0.1400 U
2,4-Dichlorophenol	NS	0.4	NS	0.14 U	0.1400 U	0.1400 U
2,4-Dimethylphenol	NS	NS	NS	0.36 U	0.350 U	0.3500 U
2,4-Dinitrophenol	NS	0.2	NS	0.29 U	0.29 U	0.2800 U
2,4-Dinitrotoluene	NS	NS	NS	0.073 U	0.072 U	0.0720 U
2,6-Dinitrotoluene	NS	NS	NS	0.073 U	0.072 U	0.072 U
2-Chloronaphthalene	NS	NS	NS	0.36 U	0.350 U	0.350 U
2-Chlorophenol	NS	NS	NS	0.36 U	0.3500 U	0.3500 U
2-Methylnaphthalene	NS	36.4	NS	0.010 J	0.3500 U	0.3500 U
2-Methylphenol	0.33	0.33	100	0.36 U	0.3500 U	0.3500 U
2-Nitroaniline	NS	0.4	NS	0.36 U	0.350 U	0.350 U
2-Nitrophenol	NS	0.3	NS	0.36 U	0.350 U	0.350 U
3,3'-Dichlorobenzidine	NS	NS	NS	0.14 U	0.140 U	0.140 U
3-Nitroaniline	NS	0.5	NS	0.36 U	0.350 U	0.350 U
4,6-Dinitro-2-methylphenol	NS	NS	NS	0.29 U	0.290 U	0.280 U
4-Bromophenyl phenyl ether	NS	NS	NS	0.36 U	0.3500 U	0.3500 U
4-Chloro-3-methylphenol	NS	NS	NS	0.36 U	0.3500 U	0.3500 U
4-Chloroaniline	NS	0.22	NS	0.36 U	0.350 U	0.350 U
4-Chlorophenyl phenyl ether	NS	NS	NS	0.36 U	0.3500 U	0.3500 U
4-Methylphenol	0.33	0.33	100	0.36 U	0.3500 U	0.3500 U
4-Nitroaniline	NS	NS	NS	0.36 U	0.350 U	0.350 U
4-Nitrophenol	NS	0.1	NS	0.73 U	0.720 U	0.720 U
Acenaphthene	20	98	100	0.36 U	0.350 U	0.350 U
Acenaphthylene	100	107	100	0.36 U	0.3500 U	0.3500 U
Acetophenone	NS	NS	NS	0.36 U	0.3500 U	0.3500 U
Anthracene	100	1000	100	0.36 U	0.3500 U	0.3500 U
Atrazine	NS	NS	NS	0.14 U	0.1400 U	0.1400 U
Benzaldehyde	NS	NS	NS	0.36 U	0.350 U	0.350 U
Benzo[a]anthracene	1	1	1	0.16	0.026 J	0.035 U
Benzo[a]pyrene	1	22	1	0.18	0.035 U	0.0350 U
Benzo[b]fluoranthene	1	1.7	1	0.29	0.0350 U	0.0350 U
Benzo[g,h,i]perylene	100	1000	100	0.10 J	0.350 U	0.3500 U
Benzo[k]fluoranthene	0.8	1.7	3.9	0.088	0.0350 U	0.0350 U
Bis(2-chloroethoxy)methane	NS	NS	NS	0.36 U	0.350 U	0.350 U
Bis(2-chloroethyl)ether	NS	NS	NS	0.036 U	0.0350 U	0.0350 U
Bis(2-ethylhexyl) phthalate	NS	435	NS	1.2	0.130 J	0.350 U
Butyl benzyl phthalate	NS	122	NS	0.10 J	0.350 U	0.350 U
Caprolactam	NS	NS	NS	0.11 J	0.350 U	0.350 U
Carbazole	NS	NS	NS	0.36 U	0.3500 U	0.3500 U
Chrysene	1	1	3.9	0.19 J	0.3500 U	0.3500 U
Dibenz[a,h]anthracene	0.33	1000	0.33	0.036 U	0.035 U	0.035 U
Dibenzofuran	7	6.2	59	0.36 U	0.3500 U	0.3500 U
Diethyl phthalate	NS	7.1	NS	0.36 U	0.3500 U	0.3500 U
Dimethyl phthalate	NS	27	NS	0.36 U	0.3500 U	0.3500 U
Di-n-butyl phthalate	NS	8.1	NS	0.36 U	0.350 U	0.350 U
Di-n-octyl phthalate	NS	120	NS	0.36 U	0.350 U	0.350 U
Fluoranthene	100	1000	100	0.32 J	0.0370 J	0.3500 U
Fluorene	30	386	100	0.36 U	0.3500 U	0.3500 U
Hexachlorobenzene	0.33	1.4	1.2	0.036 U	0.0350 U	0.0350 U
Hexachlorobutadiene	NS	NS	NS	0.073 U	0.0720 U	0.0720 U
Hexachlorocyclopentadiene	NS	NS	NS	0.36 U	0.350 U	0.350 U
Hexachloroethane	NS	NS	NS	0.036 U	0.0350 U	0.0350 U
Indeno[1,2,3-cd]pyrene	0.5	8.2	0.5	0.12	0.018 J	0.035 U
Isophorone	NS	4.4	NS	0.14 U	0.1400 U	0.1400 U
Naphthalene	12	12	100	0.013 J	0.3500 U	0.3500 U
Nitrobenzene	NS	0.17	NS	0.036 U	0.0350 U	0.0350 U
N-Nitrosodi-n-propylamine	NS	NS	NS	0.036 U	0.0350 U	0.0350 U
N-Nitrosodiphenylamine	NS	NS	NS	0.36 U	0.3500 U	0.3500 U
Pentachlorophenol	0.8	0.8	6.7	0.29 U	0.290 U	0.280 U
Phenanthrene	100	1000	100	0.16 J	0.0220 J	0.3500 U
Phenol	0.33	0.33	100	0.36 U	0.3500 U	0.3500 U
Pyrene	100	1000	100	0.31 J	0.0360 J	0.3500 U
Total Conc	NS	NS	NS	3.351	0.269	0

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 18

**Shallow Soil Sample Analytical Results - Woods (PCBs)**  
**Island Hills Golf Course, Sayville, NY**

Location Type: Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup Objective <sup>2</sup>	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	Woods SS-011 0 - 3" 460-156630-1 05/21/18	Woods SS-011 18" - 24" 460-156630-2 05/21/18	Woods SS-024 0 - 3" 460-156630-18 05/21/18
<b>Polychlorinated biphenyls by USEPA method 8082A (mg/Kg)</b>						
Aroclor 1016	NS	NS	NS	0.0730 U	0.0720 U	0.0720 U
Aroclor 1221	NS	NS	NS	0.0730 U	0.0720 U	0.0720 U
Aroclor 1232	NS	NS	NS	0.0730 U	0.0720 U	0.0720 U
Aroclor 1242	NS	NS	NS	0.0730 U	0.0720 U	0.0720 U
Aroclor 1248	NS	NS	NS	0.0730 U	0.0720 U	0.0720 U
Aroclor 1254	NS	NS	NS	0.0730 U	0.0720 U	0.0720 U
Aroclor 1260	NS	NS	NS	0.0730 U	0.0720 U	0.0720 U
Aroclor 1268	NS	NS	NS	0.0730 U	0.0720 U	0.0720 U
Aroclor-1262	NS	NS	NS	0.0730 U	0.0720 U	0.0720 U
Polychlorinated biphenyls, Total	0.1	3.2	1	0.0730 U	0.0720 U	0.0720 U

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 19

**Deep Soil Sample Analytical Results (Metals, Pesticides, Herbicides)**  
**Island Hills Golf Course, Sayville, NY**

Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	SB-001 11' - 13' 460-156390-1 05/17/2018	SB-002 6' - 8' 460-156390-2 05/17/2018	SB-003 8' - 10' 460-156390-3 05/17/2018	SB-004 2' - 4' 460-156390-4 05/17/2018	SB-0004 20' - 22' 460-156390-5 05/17/2018	SB-005 2' - 4' 460-156390-6 05/17/2018
<b>Metals by USEPA Method 6010C (mg/kg)</b>									
Aluminum	NS	NS	NS	554 F1	732	2,260	2,530	551	1,200
Antimony	NS	NS	NS	0.46 U	0.53 U	0.50 U	0.49 U	0.49 U	0.47 U
Arsenic	13	16	16	1.0 J	0.81 U	1.2 J	0.76 U	0.75 U	0.73 U
Barium	350	820	400	3.1 U	3.6 U	10.2 J	3.8 J	3.3 U	3.2 U
Beryllium	7.2	47	72	0.073 J	0.072 J	0.19 J	0.15 J	0.080 J	0.068 J
Cadmium	2.5	7.5	4.3	0.11 U	0.13 U	0.12 U	0.12 U	0.12 U	0.12 U
Calcium	NS	NS	NS	97.5 U	112 U	106 U	105 U	104 U	100 U
Chromium	30	NS	180	1.3 J	2.5	6.9	4.8	2.5	3.8
Cobalt	NS	NS	NS	1.1 U	1.3 U	1.6 J	1.5 J	1.2 U	2.1 J
Copper	50	1720	270	2.1 J	2.4 J	4.9 J	2.6 J	2.8 J	3.2 J
Iron	NS	NS	NS	2,380	2,440	5,610	4,110	2,920	2,940
Lead	63	450	400	1.5 J	0.91 J	2.7	1.5 J	1.6 J	0.70 J
Magnesium	NS	NS	NS	118 J	92.1 J	507 J	388 J	98.3 J	202 J
Manganese	1600	2000	2,000	18.1	87.2	50.9	54.3	44.1	157
Nickel	30	130	310	0.73 U	2.1 J	2.4 J	2.4 J	0.88 J	2.6 J
Potassium	NS	NS	NS	56.7 J	58.4 U	129 J	131 J	57.9 J	52.3 U
Selenium	3.9	4	180	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U
Silver	2	8.3	180	0.29 U	0.33 U	0.32 U	0.31 U	0.31 U	0.30 U
Sodium	NS	NS	NS	73.6 U	84.5 U	80.3 U	79.1 U	78.4 U	75.8 U
Thallium	NS	NS	NS	1.1 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U
Vanadium	NS	NS	NS	2.0 J	2.8 J	5.7 J	5.8 J	3.0 J	3.0 J
Zinc	109	2480	10,000	2.1 J	4.3 J	7.1	5.1 J	2.9 J	4.8 J
<b>Mercury by USEPA Method 7471B (mg/kg)</b>									
Mercury	0.18	NS <sup>3</sup>	5.8 <sup>3</sup>	0.0094 U	0.010 U	0.010 U	0.013 J	0.010 U	0.010 U
<b>Herbicides by USEPA Method 8151B (mg/kg)</b>									
2,4,5-T	NS	1.9	NS	0.0072 U	0.0081 U	0.0077 U	0.0075 U	0.0076 U	0.0072 U
2,4-D	NS	0.5	NS	0.012 U	0.014 U	0.013 U	0.013 U	0.013 U	0.012 U
Silvex (2,4,5-TP)	3.8	3.8	100	0.0035 U	0.0040 U	0.0038 U	0.0037 U	0.0037 U	0.0035 U
<b>Pesticides by USEPA Method 8081B (mg/kg)</b>									
4,4'-DDD	0.0033	14	13	0.0012 U	0.0013 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
4,4'-DDE	0.0033	17	8.9	0.00081 U	0.00090 U	0.00086 U	0.00083 U	0.00084 U	0.00080 U
4,4'-DDT	0.0033	136	7.9	0.0013 U	0.0014 U	0.0013 U	0.0013 U	0.0013 U	0.0012 U
Aldrin	0.005	0.19	0.097	0.0010 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0010 U
alpha-BHC	0.02	0.02	0.48	0.00070 U	0.00078 U	0.00074 U	0.00072 U	0.00073 U	0.00069 U
beta-BHC	0.036	0.09	0.36	0.00077 U	0.00086 U	0.00082 U	0.00079 U	0.00080 U	0.00076 U
Chlordane (technical)	0.094	NS	NS	0.017 U	0.018 U	0.018 U	0.017 U	0.017 U	0.016 U
delta-BHC	0.04	0.25	100	0.00042 U	0.00047 U	0.00045 U	0.00043 U	0.00044 U	0.00042 U
Dieldrin	0.005	0.1	0.2	0.00089 U	0.00099 U	0.00095 U	0.00092 U	0.00093 U	0.00088 U
Endosulfan I	2.4	102	24	0.0010 U	0.0012 U	0.0011 U	0.0011 U	0.0011 U	0.0010 U
Endosulfan II	2.4	102	24	0.0018 U	0.0020 U	0.0019 U	0.0018 U	0.0018 U	0.0017 U
Endosulfan sulfate	2.4	1000	24	0.00086 U	0.00096 U	0.00092 U	0.00089 U	0.00090 U	0.00085 U
Endrin	0.014	0.06	11	0.00098 U	0.0011 U	0.0011 U	0.0010 U	0.0010 U	0.00097 U
Endrin aldehyde	NS	NS	NS	0.0016 U	0.0018 U	0.0017 U	0.0017 U	0.0017 U	0.0016 U
Endrin ketone	NS	NS	NS	0.0013 U	0.0015 U	0.0014 U	0.0014 U	0.0014 U	0.0013 U
gamma-BHC (Lindane)	0.1	0.1	1.3	0.00063 U	0.00071 U	0.00068 U	0.00065 U	0.00066 U	0.00063 U
Heptachlor	0.042	0.38	2.1	0.00081 U	0.00090 U	0.00086 U	0.00083 U	0.00084 U	0.00080 U
Heptachlor epoxide	NS	0.02	NS	0.0010 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0010 U
Methoxychlor	NS	900	NS	0.0016 U	0.0017 U	0.0017 U	0.0016 U	0.0016 U	0.0016 U
Toxaphene	NS	NS	NS	0.025 U	0.028 U	0.026 U	0.026 U	0.026 U	0.025 U

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b

<sup>3</sup> NYSDEC Brownfield Cleanup Program Development of Soil Cleanup Objectives Technical Support Document, Tables 5.6-1 and 7-2, September 2006

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 20

Deep Soil Sample Analytical Results -VOCs  
Island Hills Golf Course, Sayville, NY

Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	SB-001 11' - 13' 460-156390-1 05/17/2018	SB-002 6' - 8' 460-156390-2 05/17/2018	SB-003 8' - 10' 460-156390-3 05/17/2018	SB-004 2' - 4' 460-156390-4 05/17/2018	SB-004 20' - 22' 460-156390-5 05/17/2018	SB-005 2' - 4' 460-156390-6 05/17/2018
Volatile Organic Compounds by USEPA method 8260C (mg/Kg)									
1,1,1-Trichloroethane	0.68	0.68	100	0.00022 U	0.00021 U	0.00027 U	0.00019 U	0.00023 U	0.00019 U
1,1,2,2-Tetrachloroethane	NS	0.6	NS	0.00020 U	0.00019 U	0.00024 U	0.00018 U	0.00021 U	0.00018 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	6	NS	0.00029 U	0.00027 U	0.00034 U	0.00025 U	0.00030 U	0.00025 U
1,1,2-Trichloroethane	NS	NS	NS	0.00017 U	0.00016 U	0.00020 U	0.00015 U	0.00018 U	0.00015 U
1,1-Dichloroethane	0.27	0.27	26	0.00020 U	0.00019 U	0.00024 U	0.00017 U	0.00020 U	0.00017 U
1,1-Dichloroethene	0.33	0.33	100	0.00021 U	0.00020 U	0.00026 U	0.00019 U	0.00022 U	0.00019 U
1,2,3-Trichlorobenzene	NS	NS	NS	0.00017 U	0.00016 U	0.00021 U	0.00015 U	0.00018 U	0.00015 U
1,2,4-Trichlorobenzene	NS	3.4	NS	0.000087 U	0.000083 U	0.00011 U	0.000076 U	0.000091 U	0.000076 U
1,2-Dibromo-3-Chloropropane	NS	NS	NS	0.00044 U	0.00042 U	0.00053 U	0.00038 U	0.00046 U	0.00038 U
1,2-Dichlorobenzene	1.1	1.1	100	0.00014 U	0.00013 U	0.00016 U	0.00012 U	0.00014 U	0.00012 U
2-Chloroethane	0.02	0.02	3.1	0.00028 U	0.00027 U	0.00034 U	0.00024 U	0.00029 U	0.00025 U
1,2-Dichloropropane	NS	NS	NS	0.00040 U	0.00038 U	0.00048 U	0.00035 U	0.00042 U	0.00035 U
1,3-Dichlorobenzene	2.4	2.4	49	0.00015 U	0.00014 U	0.00018 U	0.00013 U	0.00016 U	0.00013 U
1,4-Dichlorobenzene	1.8	1.8	13	0.000095 U	0.000090 U	0.00011 U	0.000082 U	0.000099 U	0.000083 U
1,4-Dioxane	0.1	0.1	13	0.0087 U	0.0083 U	0.010 U	0.0076 U	0.0091 U	0.0076 U
2-Butanone (MEK)	0.12	0.3	100	0.0028 J	0.0049	0.0013 U	0.00091 U	0.0011 U	0.0089
2-Hexanone	NS	NS	NS	0.00074 U *	0.00070 U *	0.00089 U *	0.00064 U *	0.00077 U *	0.00065 U *
4-Methyl-2-pentanone (MIBK)	NS	1	NS	0.00063 U	0.00060 U	0.00076 U	0.00055 U	0.00066 U	0.00055 U
Acetone	0.05	0.05	100	0.018	0.026	0.016	0.0069	0.017	0.059
Benzene	0.06	0.06	4.8	0.00024 U	0.00023 U	0.00030 U	0.00021 U	0.00026 U	0.00021 U
Bromoform	NS	NS	NS	0.00040 U	0.00038 U	0.00049 U	0.00035 U	0.00042 U	0.00035 U
Bromomethane	NS	NS	NS	0.00045 U	0.00043 U	0.00054 U	0.00039 U	0.00047 U	0.00039 U
Carbon disulfide	NS	2.7	NS	0.00025 U	0.00024 U	0.00030 U	0.00022 U	0.00026 U	0.00022 U
Carbon tetrachloride	0.76	0.76	2.4	0.00017 U	0.00016 U	0.00021 U	0.00015 U	0.00018 U	0.00015 U
Chlorobenzene	1.1	1.1	100	0.00017 U	0.00016 U	0.00020 U	0.00015 U	0.00018 U	0.00015 U
Chlorobromomethane	NS	NS	NS	0.00027 U	0.00025 U	0.00032 U	0.00023 U	0.00028 U	0.00023 U
Chlorodibromomethane	NS	NS	NS	0.00018 U	0.00018 U	0.00022 U	0.00016 U	0.00019 U	0.00016 U
Chloroethane	NS	1.9	NS	0.00050 U	0.00047 U	0.00060 U	0.00043 U	0.00052 U	0.00043 U
Chloroform	0.37	0.37	49	0.00030 U	0.00029 U	0.00036 U	0.00026 U	0.00032 U	0.00026 U
Chloromethane	NS	NS	NS	0.00041 U	0.00039 U	0.00050 U	0.00036 U	0.00043 U	0.00036 U
cis-1,2-Dichloroethene	0.25	0.25	100	0.00014 U	0.00014 U	0.00017 U	0.00013 U	0.00015 U	0.00013 U
cis-1,3-Dichloropropene	NS	NS	NS	0.00026 U	0.00025 U	0.00031 U	0.00023 U	0.00027 U	0.00023 U
Cyclohexane	NS	NS	NS	0.00021 U	0.00020 U	0.00025 U	0.00018 U	0.00022 U	0.00018 U
Dichlorobromomethane	NS	NS	NS	0.00024 U	0.00023 U	0.00029 U	0.00021 U	0.00025 U	0.00021 U
Dichlorodifluoromethane	NS	NS	NS	0.00032 U	0.00031 U	0.00039 U	0.00028 U	0.00033 U	0.00028 U
Ethylbenzene	1	1	41	0.00027 J	0.00018 U	0.00023 U	0.00016 U	0.00020 U	0.00020 J
Ethylene Dibromide	NS	NS	NS	0.00017 U	0.00016 U	0.00021 U	0.00015 U	0.00018 U	0.00015 U
Isopropylbenzene	NS	2.3	NS	0.00012 U	0.00011 U	0.00014 U	0.00010 U	0.00012 U	0.00010 U
Methyl acetate	NS	NS	NS	0.0041 U *	0.0039 U *	0.0049 U	0.0035 U *	0.0043 U *	0.0036 U *
Methyl tert-butyl ether	0.93	0.93	100	0.00012 U	0.00011 U	0.00014 U	0.00010 U	0.00012 U	0.00010 U
Methylcyclohexane	NS	NS	NS	0.00015 U	0.00014 U	0.00018 U	0.00013 U	0.00016 U	0.00013 U
Methylene Chloride	0.05	0.05	100	0.00089 J B	0.00060 J B	0.0030 B	0.0011 B	0.0015 B	0.0017 B
m-Xylene & p-Xylene	0.26	NS	NS	0.00099	0.00098	0.0010 J	0.00069 J	0.00081 J	0.00065 J
o-Xylene	0.26	NS	NS	0.00032 J	0.00039 J	0.00026 J	0.00029 J	0.00030 J	0.00023 J
Styrene	NS	NS	NS	0.00012 U	0.00011 U	0.00014 U	0.00010 U	0.00012 U	0.00010 U
Tetrachloroethene	1.3	1.3	19	0.00014 U	0.00013 U	0.00016 U	0.00012 U	0.00014 U	0.00012 U
Toluene	0.7	0.7	100	0.00059 U	0.00056 U	0.00071 U	0.00052 U	0.00062 U	0.00052 U
trans-1,2-Dichloroethene	0.19	0.19	100	0.00023 U	0.00022 U	0.00028 U	0.00020 U	0.00024 U	0.00020 U
trans-1,3-Dichloropropene	NS	NS	NS	0.00025 U	0.00024 U	0.00030 U	0.00022 U	0.00026 U	0.00022 U
Trichloroethene	0.47	0.47	21	0.00014 U	0.00013 U	0.00016 U	0.00012 U	0.00014 U	0.00012 U
Trichlorofluoromethane	NS	NS	NS	0.00039 U	0.00037 U	0.00046 U	0.00033 U	0.00040 U	0.00034 U
Vinyl chloride	0.02	0.02	0.9	0.00052 U	0.00049 U	0.00062 U	0.00045 U	0.00054 U	0.00045 U
Total Conc	NS	NS	NS	0.02327	0.03287	0.02026	0.00898	0.01961	0.07068

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 21

**Deep Soil Sample Analytical Results - SVOCs**  
**Island Hills Golf Course, Sayville, NY**

Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	SB-001 11' - 13' 460-156390-1 05/17/2018	SB-002 6' - 8' 460-156390-2 05/17/2018	SB-003 8' - 10' 460-156390-3 05/17/2018	SB-004 2' - 4' 460-156390-4 05/17/2018	SB-0004 20' - 22' 460-156390-5 05/17/2018	SB-005 2' - 4' 460-156390-6 05/17/2018
<b>Semi-Volatile Organic Compounds by USEPA method 8270D (mg/Kg)</b>									
1,1'-Biphenyl	NS	NS	NS	0.0045 U	0.0050 U	0.0048 U	0.0046 U	0.0047 U	0.33 U
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	0.0044 U	0.0049 U	0.0047 U	0.0046 U	0.0046 U	0.33 U
2,2'-oxybis[1-chloropropane]	NS	NS	NS	0.0061 U	0.0068 U	0.0065 U	0.0063 U	0.0064 U	0.33 U
2,3,4,6-Tetrachlorophenol	NS	NS	NS	0.023 U	0.026 U	0.025 U	0.024 U	0.024 U	0.33 U
2,4,5-Trichlorophenol	NS	0.1	NS	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.33 U
2,4,6-Trichlorophenol	NS	NS	NS	0.017 U	0.019 U	0.018 U	0.018 U	0.018 U	0.13 U
2,4-Dichlorophenol	NS	0.4	NS	0.0071 U	0.0080 U	0.0076 U	0.0074 U	0.0075 U	0.13 U
2,4-Dimethylphenol	NS	NS	NS	0.015 U	0.017 U	0.016 U	0.015 U	0.016 U	0.33 U
2,4-Dinitrophenol	NS	0.2	NS	0.17 U	0.19 U	0.18 U	0.17 U	0.17 U F1	0.27 U
2,4-Dinitrotoluene	NS	NS	NS	0.017 U	0.019 U	0.018 U	0.018 U	0.018 U	0.068 U
2,6-Dinitrotoluene	NS	NS	NS	0.011 U	0.012 U	0.012 U	0.011 U	0.011 U	0.068 U
2-Chloronaphthalene	NS	NS	NS	0.016 U	0.017 U	0.017 U	0.016 U	0.016 U	0.33 U
2-Chlorophenol	NS	NS	NS	0.0047 U	0.0053 U	0.0051 U	0.0049 U	0.0050 U	0.33 U
2-Methylnaphthalene	NS	36.4	NS	0.0042 U	0.0047 U	0.0045 U	0.0044 U	0.0044 U	0.33 U
2-Methylphenol	0.33	0.33	100	0.0055 U	0.0061 U	0.0058 U	0.0056 U	0.0057 U	0.33 U
2-Nitroaniline	NS	0.4	NS	0.013 U	0.014 U	0.014 U	0.013 U	0.013 U	0.33 U
2-Nitrophenol	NS	0.3	NS	0.011 U	0.012 U	0.012 U	0.011 U	0.011 U	0.33 U
3,3'-Dichlorobenzidine	NS	NS	NS	0.051 U	0.057 U	0.055 U	0.053 U	0.053 U	0.13 U
3-Nitroaniline	NS	0.5	NS	0.018 U	0.020 U	0.020 U	0.019 U	0.019 U	0.33 U
4,6-Dinitro-2-methylphenol	NS	NS	NS	0.055 U	0.061 U	0.059 U	0.057 U	0.057 U F1	0.27 U
4-Bromophenyl phenyl ether	NS	NS	NS	0.0044 U	0.0049 U	0.0047 U	0.0045 U	0.0046 U	0.33 U
4-Chloro-3-methylphenol	NS	NS	NS	0.0056 U	0.0063 U	0.0060 U	0.0058 U	0.0059 U	0.33 U
4-Chloroaniline	NS	0.22	NS	0.024 U	0.026 U	0.025 U	0.024 U	0.025 U	0.33 U
4-Chlorophenyl phenyl ether	NS	NS	NS	0.0053 U	0.0059 U	0.0057 U	0.0055 U	0.0056 U	0.33 U
4-Methylphenol	0.33	0.33	100	0.0058 U	0.0064 U	0.0062 U	0.0060 U	0.0060 U	0.33 U
4-Nitroaniline	NS	NS	NS	0.013 U	0.014 U	0.013 U	0.013 U	0.013 U	0.33 U
4-Nitrophenol	NS	0.1	NS	0.055 U	0.061 U	0.059 U	0.057 U	0.058 U	0.68 U
Acenaphthene	20	98	100	0.025 U	0.027 U	0.026 U	0.025 U	0.026 U F1	0.33 U
Acenaphthylene	100	107	100	0.0035 U	0.0039 U	0.0037 U	0.0036 U	0.0037 U	0.33 U
Acetophenone	NS	NS	NS	0.0055 U	0.0061 U	0.0058 U	0.0056 U	0.0057 U F1	0.33 U
Anthracene	100	1000	100	0.0038 U	0.0042 U	0.0040 U	0.0039 U	0.0039 U	0.33 U
Atrazine	NS	NS	NS	0.0085 U	0.0095 U	0.0091 U	0.0088 U	0.0089 U	0.13 U
Benzaldehyde	NS	NS	NS	0.015 U	0.016 U	0.016 U	0.015 U	0.015 U	0.33 U
Benzo[a]anthracene	1	1	1	0.012 U	0.013 U	0.013 U	0.012 U	0.012 U	0.033 U
Benzo[a]pyrene	1	22	1	0.0090 U	0.010 U	0.0096 U	0.0093 U	0.0094 U	0.033 U
Benzo[b]fluoranthene	1	1.7	1	0.0087 U	0.0098 U	0.0094 U	0.0090 U	0.0091 U	0.033 U
Benzo[g,h,i]perylene	100	1000	100	0.010 U	0.011 U	0.011 U	0.010 U	0.010 U	0.33 U
Benzo[k]fluoranthene	0.8	1.7	3.9	0.0066 U	0.0074 U	0.0071 U	0.0069 U	0.0069 U	0.033 U
Bis(2-chloroethoxy)methane	NS	NS	NS	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.33 U
Bis(2-chloroethyl)ether	NS	NS	NS	0.0041 U	0.0046 U	0.0044 U	0.0042 U	0.0043 U F1	0.033 U
Bis(2-ethylhexyl) phthalate	NS	435	NS	0.018 U	0.020 U	0.019 U	0.018 U	0.019 U	0.33 U
Butyl benzyl phthalate	NS	122	NS	0.016 U	0.018 U	0.017 U	0.016 U	0.017 U	0.33 U
Caprolactam	NS	NS	NS	0.020 U	0.023 U	0.022 U	0.021 U	0.021 U	0.33 U
Carbazole	NS	NS	NS	0.0040 U	0.0044 U	0.0042 U	0.0041 U	0.0041 U	0.33 U
Chrysene	1	1	3.9	0.0057 U	0.0064 U	0.0061 U	0.0059 U	0.0060 U	0.33 U
Dibenz(a,h)anthracene	0.33	1000	0.33	0.015 U	0.016 U	0.016 U	0.015 U	0.015 U	0.033 U
Dibenzofuran	7	6.2	59	0.0047 U	0.0053 U	0.0051 U	0.0049 U	0.0050 U	0.33 U
Diethyl phthalate	NS	7.1	NS	0.0049 U	0.0055 U	0.0052 U	0.0051 U	0.0051 U	0.33 U
Dimethyl phthalate	NS	27	NS	0.0041 U	0.0046 U	0.0044 U	0.0042 U	0.0043 U	0.33 U
Di-n-butyl phthalate	NS	8.1	NS	0.060 U	0.067 U	0.064 U	0.062 U	0.062 U	0.33 U
Di-n-octyl phthalate	NS	120	NS	0.018 U	0.020 U	0.019 U	0.019 U	0.019 U	0.33 U
Fluoranthene	100	1000	100	0.0044 U	0.0049 U	0.0047 U	0.0045 U	0.0046 U	0.33 U
Fluorene	30	386	100	0.0046 U	0.0051 U	0.0049 U	0.0047 U	0.0048 U	0.33 U
Hexachlorobenzene	0.33	1.4	1.2	0.0055 U	0.0053 U	0.0051 U	0.0052 U	0.0049 U	0.033 U
Hexachlorobutadiene	NS	NS	NS	0.0080 U	0.0077 U	0.0074 U	0.0075 U	0.0071 U	0.068 U
Hexachlorocyclopentadiene	NS	NS	NS	0.033 U	0.032 U	0.031 U	0.031 U	0.029 U	0.33 U
Hexachloroethane	NS	NS	NS	0.0058 U	0.0056 U	0.0054 U	0.0054 U F1	0.0052 U	0.033 U
Indeno[1,2,3-cd]pyrene	0.5	8.2	0.5	0.015 U	0.014 U	0.014 U	0.014 U	0.013 U	0.033 U
Isophorone	NS	4.4	NS	0.0099 U	0.0095 U	0.0092 U	0.0093 U F1	0.0088 U	0.13 U
Naphthalene	12	12	100	0.0065 U	0.0063 U	0.0060 U	0.0061 U F1	0.0058 U	0.33 U
Nitrobenzene	NS	0.17	15	0.0091 U	0.0087 U	0.0084 U	0.0085 U F1	0.0080 U	0.033 U
N-Nitrosodi-n-propylamine	NS	NS	NS	0.0060 U	0.0058 U	0.0056 U	0.0056 U	0.0053 U	0.033 U
N-Nitrosodiphenylamine	NS	NS	NS	0.0072 U	0.0069 U	0.0067 U	0.0068 U	0.0064 U	0.33 U
Pentachlorophenol	0.8	0.8	6.7	0.077 U	0.074 U	0.072 U	0.072 U	0.069 U	0.27 U
Phenanthrene	100	1000	100	0.0066 U	0.0064 U	0.0061 U	0.0062 U	0.0059 U	0.33 U
Phenol	0.33	0.33	100	0.0056 U	0.0054 U	0.0052 U	0.0052 U	0.0050 U	0.33 U
Pyrene	100	1000	100	0.0094 U	0.0090 U	0.0087 U	0.0088 U	0.0083 U	0.33 U
Total Conc	NS	NS	NS	0	0	0	0	0	0

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentration exceeding NYSDEC Restricted-Residential Criteria



Table 22

**Deep Soil Sample Analytical Results - PCBs**  
**Island Hills Golf Course, Sayville, NY**

Sample Location ID: Sample Depth: Laboratory ID: Sampling Date:	NYSDEC Unrestricted Use Soil Cleanup Objective <sup>1</sup>	NYSDEC Groundwater Protection Soil Cleanup	NYSDEC Restricted Residential Soil Cleanup Objective <sup>2</sup>	SB-001 11' - 13' 460-156390-1 05/17/2018	SB-002 6' - 8' 460-156390-2 05/17/2018	SB-003 8' - 10' 460-156390-3 05/17/2018	SB-004 2' - 4' 460-156390-4 05/17/2018	SB-004 20' - 22' 460-156390-5 05/17/2018	SB-005 2' - 4' 460-156390-6 05/17/2018
Polychlorinated biphenyls by USEPA method 8082A (mg/Kg)									
Aroclor 1016	NS	NS	NS	0.0091 U	0.010 U	0.0097 U	0.0094 U	0.0095 U	0.0090 U
Aroclor 1221	NS	NS	NS	0.0091 U	0.010 U	0.0097 U	0.0094 U	0.0095 U	0.0090 U
Aroclor 1232	NS	NS	NS	0.0091 U	0.010 U	0.0097 U	0.0094 U	0.0095 U	0.0090 U
Aroclor 1242	NS	NS	NS	0.0091 U	0.010 U	0.0097 U	0.0094 U	0.0095 U	0.0090 U
Aroclor 1248	NS	NS	NS	0.0091 U	0.010 U	0.0097 U	0.0094 U	0.0095 U	0.0090 U
Aroclor 1254	NS	NS	NS	0.0094 U	0.010 U	0.010 U	0.0097 U	0.0098 U	0.0093 U
Aroclor 1260	NS	NS	NS	0.0094 U	0.010 U	0.010 U	0.0097 U	0.0098 U	0.0093 U
Aroclor 1268	NS	NS	NS	0.0094 U	0.010 U	0.010 U	0.0097 U	0.0098 U	0.0093 U
Aroclor-1262	NS	NS	NS	0.0094 U	0.010 U	0.010 U	0.0097 U	0.0098 U	0.0093 U
Polychlorinated biphenyls, Total	0.1	3.2	1	0.0094 U	0.010 U	0.010 U	0.0097 U	0.0098 U	0.0093 U

<sup>1</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Unrestricted Use Soil Cleanup Objective Table 375-6.8a

<sup>2</sup> NYSDEC 6 NYCRR Environmental Remediation Programs Part 375 Restricted Use Soil Cleanup Objective Table 375-6.8b

NS - No Standard

NA - Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

F1 : MS and/or MSD Recovery is outside acceptance limits.

F2 : MS/MSD RPD exceeds control limits

B : Compound was found in the blank and sample.

P : The % RPD between the primary and confirmation column/detector is > 40%. The lower value has been reported

\* : LCS or LCSD is outside acceptance limits.

Highlighted text denotes concentrations exceeding NYSDEC Unrestricted Use Criteria

Highlighted text denotes concentrations exceeding NYSDEC Protection of Groundwater Criteria

Highlighted text denotes concentrations exceeding NYSDEC Restricted-Residential Criteria



Table 23

**Groundwater Field Data Summary  
Island Hills Golf Course, Sayville, NY**

Well ID	Reference Elevation	Casing Elevation	Depth to Bottom (bsl)	Depth to Water (bsl)	Groundwater Elevation
<b>May 23, 2018</b>					
MW-001	NM	NM	20.33	11.11	NM
MW-002	NM	NM	31.40	23.60	NM
MW-003	NM	NM	31.40	25.43	NM
MW-004	NM	NM	31.52	24.24	NM
MW-005	NM	NM	30.33	24.65	NM
MW-006	NM	NM	17.60	8.95	NM

## Notes:

All measurements are in feet (ft).

Reference elevation is based upon an arbitrary datum

Casing elevation is from the top of the casing

The six wells are pop-up wells, approximately 1 to 3 feet above ground



Table 24  
Groundwater Analytical Data Summary - VOCs

Island Hills Golf Course, Sayville, NY

Client Sample ID: Screened Interval: Laboratory ID: Sampling Date:	NYSDEC Groundwater Quality Standards <sup>(1)</sup>	MW-001 9 - 19' 460-156817-1 05/23/2018	MW-002 20 - 30' 460-156817-2 05/23/2018	MW-003 20 - 30' 460-156817-3 05/23/2018	MW-004 20 - 30' 460-156817-4 05/23/2018	MW-005 18 - 28' 460-156817-5 05/23/2018	MW-006 5 - 15' 460-156817-6 05/23/2018
Volatile Organic Compounds by USEPA Method 8260C in µg/L							
1,1,1-Trichloroethane	5	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1,1,2-Tetrachloroethane	5	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,1,2-Trichloroethane	1	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
1,1-Dichloroethane	5	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1-Dichloroethene	5	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,2,3-Trichlorobenzene	5	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
1,2,4-Trichlorobenzene	5	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dibromo-3-chloropropane	0.04	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-Dichlorobenzene	3	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,2-Dichloroethane	0.6	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,2-Dichloropropane	1	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,3-Dichlorobenzene	3	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,4-Dichlorobenzene	3	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,4-Dioxane	NS	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U
2-Butanone	50	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
2-Hexanone	50	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
4-Methyl-2-pentanone	NS	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Acetone	50	4 J	3.6 J	3.9 J	3.7 J	3.1 J	2.4 J
Benzene	1	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Bromoform	50	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromomethane	5	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Carbon disulfide	60	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Carbon tetrachloride	5	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Chlorobenzene	5	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Dichlorobromomethane	NS	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	5	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Chloroethane	5	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Chloroform	7	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Chloromethane	NS	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
cis-1,2-Dichloroethene	5	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
cis-1,3-Dichloropropene	0.4	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	NS	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Dichlorobromomethane	NS	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Dichlorodifluoromethane	5	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Ethylbenzene	5	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylene Dibromide	0.0006	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Isopropylbenzene	5	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Methyl acetate	NS	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U
Methyl tert butyl ether	10	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Methylcyclohexane	NS	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Methylene chloride	5	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
m-Xylene & p-Xylene	5	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
o-Xylene	5	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Styrene	5	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Tetrachloroethene	5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Toluene	5	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
trans-1,2-Dichloroethene	5	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
trans-1,3-Dichloropropene	0.4	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	5	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichlorofluoromethane	5	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Vinyl chloride	2	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Total VOCs:		4	3.6	3.9	3.7	3.1	2.4

Notes:  
(1) NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998  
\* DUP002 is a blind duplicate of GW002  
NS - No Standard  
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.  
U - The analyte was analyzed for, but was not detected above the reported sample quantification limit. The associated numerical value is the sample quantitation.  
Highlighted values indicate exceedance of the NYSDEC AWQS



Table 25

Groundwater Analytical Data Summary - SVOCs  
Island Hills Golf Course, Sayville, NY

Client Sample ID: Screened Interval: Laboratory ID: Sampling Date:	NYSDEC Groundwater Quality Standards <sup>(1)</sup>	MW-001 9 - 19'	MW-002 20 - 30'	MW-003 20 - 30'	MW-004 20 - 30'	MW-005 18 - 28'	MW-006 5 - 15'
		460-156817-1 05/23/2018	460-156817-2 05/23/2018	460-156817-3 05/23/2018	460-156817-4 05/23/2018	460-156817-5 05/23/2018	460-156817-6 05/23/2018
Semi-Volatile Organic Compounds by USEPA Method 8270D in µg/L							
1,1'-Biphenyl	5	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2,4,5-Tetrachlorobenzene	5	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	1.2 U
2,2'-oxybis[1-chloropropane]	5	0.63 U	0.63 U	0.63 U	0.66 U	0.66 U	0.63 U
2,3,4,6-Tetrachlorophenol	NS	0.75 U	0.75 U	0.75 U	0.78 U	0.78 U	0.75 U
2,4,5-Trichlorophenol	NS	0.28 U	0.28 U	0.28 U	0.29 U	0.29 U	0.28 U
2,4,6-Trichlorophenol	NS	0.3 U	0.3 U	0.3 U	0.31 U	0.31 U	0.3 U
2,4-Dichlorophenol	1	0.42 U	0.42 U	0.42 U	0.44 U	0.44 U	0.42 U
2,4-Dimethylphenol	50	0.24 U	0.24 U	0.24 U	0.25 U	0.25 U	0.24 U
2,4-Dinitrophenol	10	14 U	14 U	14 U	15 U	15 U	14 U
2,4-Dinitrotoluene	5	1 U	1 U	1 U	1 U	1 U	1 U
2,6-Dinitrotoluene	5	0.39 U	0.39 U	0.39 U	0.41 U	0.41 U	0.39 U
2-Chloronaphthalene	10	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Chlorophenol	NS	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U	0.38 U
2-Methylnaphthalene	NS	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
2-Methylphenol	NS	0.26 U	0.26 U	0.26 U	0.27 U	0.27 U	0.26 U
2-Nitroaniline	5	0.47 U	0.47 U	0.47 U	0.49 U	0.49 U	0.47 U
2-Nitrophenol	NS	0.75 U	0.75 U	0.75 U	0.78 U	0.78 U	0.75 U
3,3'-Dichlorobenzidine	5	1.4 U *	1.4 U *	1.4 U *	1.5 U *	1.5 U *	1.4 U *
3-Nitroaniline	5	0.96 U	0.96 U	0.96 U	1 U	1 U	0.96 U
4,6-Dinitro-o-cresol	NS	13 U	13 U	13 U	14 U	14 U	13 U
4-Bromophenyl phenyl ether	NS	0.75 U	0.75 U	0.75 U	0.78 U	0.78 U	0.75 U
4-Chloro-3-methylphenol	NS	0.58 U	0.58 U	0.58 U	0.6 U	0.6 U	0.58 U
4-Chloroaniline	5	1.9 U *	1.9 U *	1.9 U *	2 U *	2 U *	1.9 U *
4-Chlorophenyl phenyl ether	NS	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
4-Methylphenol	NS	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
4-Nitroaniline	5	0.54 U	0.54 U	0.54 U	0.57 U	0.57 U	0.54 U
4-Nitrophenol	NS	0.69 U	0.69 U	0.69 U	0.72 U	0.72 U	0.69 U
Acenaphthene	20	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Acenaphthylene	NS	0.82 U	0.82 U	0.82 U	0.86 U	0.86 U	0.82 U
Acetophenone	NS	0.79 U	0.79 U	0.79 U	0.82 U	0.82 U	0.79 U
Anthracene	50	0.63 U	0.63 U	0.63 U	0.66 U	0.66 U	0.63 U
Atrazine	7.5	1.3 U	1.3 U	1.3 U	1.4 U	1.4 U	1.3 U
Benzaldehyde	NS	0.59 U *	0.59 U *	0.59 U *	0.62 U *	0.62 U *	0.59 U *
Benzo(a)anthracene	0.002	0.59 U	0.59 U	0.59 U	0.62 U	0.62 U	0.59 U
Benzo(a)pyrene	0	0.41 U	0.41 U	0.41 U	0.42 U	0.42 U	0.41 U
Benzo(b)fluoranthene	0.002	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U
Benzo(ghi)perylene	NS	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	1.4 U
Benzo(k)fluoranthene	0.002	0.67 U	0.67 U	0.67 U	0.7 U	0.7 U	0.67 U
Bis(2-chloroethoxy)methane	5	0.24 U	0.24 U	0.24 U	0.25 U	0.25 U	0.24 U
Bis(2-chloroethyl)ether	1	0.3 U	0.3 U	0.3 U	0.31 U	0.31 U	0.3 U
Bis(2-ethylhexyl)phthalate	5	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U
Butyl benzyl phthalate	50	0.85 U	0.85 U	0.85 U	0.89 U	0.89 U	0.85 U
Caprolactam	NS	0.68 U	0.68 U	0.68 U	0.71 U	0.71 U	0.68 U
Carbazole	NS	0.68 U	0.68 U	0.68 U	0.71 U	0.71 U	0.68 U
Chrysene	0.002	0.91 U	0.91 U	0.91 U	0.94 U	0.94 U	0.91 U
Dibenzo(a,h)anthracene	NS	0.72 U	0.72 U	0.72 U	0.75 U	0.75 U	0.72 U
Dibenzofuran	NS	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Diethyl phthalate	50	0.98 U	0.98 U	0.98 U	1 U	1 U	0.98 U
Dimethyl phthalate	50	0.77 U	0.77 U	0.77 U	0.8 U	0.8 U	0.77 U
Di-n-butylphthalate	50	0.84 U	0.84 U	0.84 U	0.88 U	0.88 U	0.84 U
Di-n-octylphthalate	50	4.8 U	4.8 U	4.8 U	5 U	5 U	4.8 U
Fluoranthene	50	0.84 U	0.84 U	0.84 U	0.88 U	0.88 U	0.84 U
Fluorene	50	0.91 U	0.91 U	0.91 U	0.95 U	0.95 U	0.91 U
Hexachlorobenzene	0.04	0.4 U	0.4 U	0.4 U	0.41 U	0.41 U	0.4 U
Hexachlorobutadiene	0.5	0.78 U	0.78 U	0.78 U	0.81 U	0.81 U	0.78 U
Hexachlorocyclopentadiene	5	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U
Hexachloroethane	5	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Indeno(1,2,3-cd)pyrene	0.002	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Isophorone	50	0.8 U	0.8 U	0.8 U	0.83 U	0.83 U	0.8 U
Naphthalene	10	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U
Nitrobenzene	0.4	0.57 U	0.57 U	0.57 U	0.59 U	0.59 U	0.57 U
n-Nitrosodi-n-propylamine	NS	0.43 U	0.43 U	0.43 U	0.45 U	0.45 U	0.43 U
NDPA/DPA	50	0.89 U	0.89 U	0.89 U	0.93 U	0.93 U	0.89 U
Pentachlorophenol	1	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	1.4 U
Phenanthrene	50	0.58 U	0.58 U	0.58 U	0.6 U	0.6 U	0.58 U
Phenol	1	0.29 U	0.29 U	0.29 U	0.3 U	0.3 U	0.29 U
Pyrene	50	1.6 U	1.6 U	1.6 U	1.7 U	1.7 U	1.6 U
Total SVOCs:		0	0	0	0	0	0

Notes:  
(1) NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998 - Standard  
\* : LCS or LCSD is outside acceptance limits.  
NS - No Standard  
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.  
U - The analyte was analyzed for, but was not detected above the reported sample quantification limit. The associated numerical value is the sample quantitation limit.  
Highlighted values indicate exceedance of the NYSDEC AWQS or GV



**Table 26**  
**Groundwater Analytical Data Summary - Metals (Total and Dissolved)**

**Island Hills Golf Course, Sayville, NY**

Client Sample ID:	NYSDEC Groundwater Quality Standards <sup>(1)</sup>	MW-001 9 - 19'		MW-002 20 - 30'		MW-003 20 - 30'		MW-004 20 - 30'		MW-005 18 - 28'		MW-006 5 - 15'	
Screened Interval:		460-156817-1 05/23/2018		460-156817-2 05/23/2018		460-156817-3 05/23/2018		460-156817-4 05/23/2018		460-156817-5 05/23/2018		460-156817-6 05/23/2018	
Laboratory ID:		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Sampling Date:													
Sample Type:													
Total Metals by USEPA Method 6020A in µg/L													
Aluminum	NS	62.5	15 U	17.9 J	15 U	23.6 J	15 U	26.5 J	15 U	19.1 J	15 U	37.9 J	15 U
Antimony	3	2.9	0.62 U	2.7	0.62 U	2.4	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
Arsenic	25	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
Barium	1,000	24.2	25.8	20	20.9	18.8	19.2	22	22.9	21.3	22.1	32	32.9
Beryllium	3	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Cadmium	5	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Calcium	NS	11,000	11,000	9,280	9,190	8,070	8,030	11,600	11,900	7,400	7,390	54,200	54,400
Chromium	50	1.3 U	1.3 U	1.3 J	1.3 U	1.9 J	1.3 U	1.3 J	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Cobalt	NS	1.4 J	1.3 J	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	3.3 J	3.2 J
Copper	200	7.5	3.5 J	2 J	1.9 U	1.9 U	1.9 U	3 J	1.9 J	2.4 J	1.9 U	2.1 J	1.9 U
Iron	300	175	45.7 U	52.2 J	45.7 U	66.9 J	45.7 U	60.7 J	45.7 U	45.7 U	45.7 U	320	71.5 J
Lead	25	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Magnesium	35,000	3,670	3,770	4,070	4,220	3,430	3,510	5,120	4,920	3,510	3,350	9,250	8,840
Manganese	300	335	312	9.5	7.6 J	19.5	17.9	23.5	22.7	67.2	65.4	165	164
Nickel	100	3.5 J	3 J	1.3 U	1.3 U	1.4 J	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	4.7	4.4
Potassium	NS	3,820	3,550	5,640	5,620	3,840	3,540	4,210	4,280	4,880	4,730	3,310	3,320
Selenium	10	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.1 J	0.98 J
Silver	50	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Sodium	20,000	10,400	9,810	17,000	16,300	12,500	11,800	13,200	12,700	16,200	15,500	23,700	22,400
Thallium	0.5	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Vanadium	NS	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Zinc	2,000	5.6 J	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	46.8	48.5
Mercury by USEPA Method 7470Ain µg/L													
Mercury	0.7	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

Notes:

(1) 6NYCRR Part 703.5 GA Groundwater Quality Standards (GQS) and Guidance Values (GV) 6/1996

\* DUP002 is a blind duplicate of GMW002

NS - No Standard

U - The analyte was analyzed for, but was not detected above the reported sample quantification limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Highlighted values indicate exceedance of the NYSDEC GQS or GV.



**Table 27**  
**Groundwater Analytical Data Summary - Pesticides, Herbicides, and Nitrogen Series**

**Island Hills Golf Course, Sayville, NY**

Client Sample ID:	NYSDEC	MW-001	MW-002	MW-003	MW-004	MW-005	MW-006
Screened Interval:	Groundwater	9 - 19'	20 - 30'	20 - 30'	20 - 30'	18 - 28'	5 - 15'
Laboratory ID:	Quality	460-156817-1	460-156817-2	460-156817-3	460-156817-4	460-156817-5	460-156817-6
Sampling Date:	Standards <sup>(1)</sup>	05/23/2018	05/23/2018	05/23/2018	05/23/2018	05/23/2018	05/23/2018
<b>Organochlorine Pesticides by USEPA Method 8081B in µg/L</b>							
4,4'-DDD	0.3	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
4,4'-DDE	0.2	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
4,4'-DDT	0.2	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Aldrin	0	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Alpha-BHC	0.01	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
Beta-BHC	0.04	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Chlordane	0.05	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
Delta-BHC	0.04	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dieldrin	0.004	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Endosulfan I	NS	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Endosulfan II	NS	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Endosulfan sulfate	NS	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Endrin	0	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Endrin aldehyde	5	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U
Endrin ketone	5	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U
gamma-BHC (Lindane)	0.05	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Heptachlor	0.04	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Heptachlor epoxide	0.03	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methoxychlor	35	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Toxaphene	0.06	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
<b>Herbicides by USEPA Method 8151A in µg/L</b>							
2,4,5-T	35	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
2,4-D	50	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Silvex (2,4,5-TP)	0.26	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
<b>Ammonia by USEPA Method 350.1 in mg/L</b>							
Ammonia	NS	0.078 J	0.063 J	0.057 J	0.076 J	0.15	0.22
<b>TKN by USEPA method 351.2 in mg/L</b>							
Total Kjeldahl Nitrogen	NS	0.73 B F1	0.29 B	0.27 B	0.3 B	0.32 B	0.39 B
<b>Nitrate/Nitrite by USEPA method 353.2 in mg/L</b>							
Nitrate as N	10	4.3 H	3.1 H	3	4.7	2.7	8.7
Nitrate Nitrite as N	10	4.4 H	3.3 H	3.1	5	2.9	9.1
Nitrite as N	1	0.024 J H	0.038 J H	0.028 J	0.019 J	0.038 J	0.032 J

Notes:

(1) 6NYCRR Part 703.5 GA Groundwater Quality Standards (GQS) and Guidance Values (GV) 6/1996

\* DUP002 is a blind duplicate of MW002

NS - No Standard

U - The analyte was analyzed for, but was not detected above the reported sample quantification limit.

J - The analyte was positively identified; the associated


Highlighted values indicate exceedance of the NYSDEC GQS or GV.



## APPENDIX A

### SOIL BORING LOGS



PROJECT #:		RSL1801					
SITE ADDRESS:		458 Lakeland Ave, Sayville, NY					
BORING ID:		SB-001		BORING DEPTH (FT):		CORE LENGTH (FT):	
				20		5	
WELL ID:		N/A		BORING DIAMETER (IN):		WELL DIAMETER (IN):	
				2		N/A	
DRILLING CONTRACTOR:		Coastal Environmental Solutions, Inc.		DATE STARTED:		DATE FINISHED:	
				05/17/2018		05/17/2018	
DRILLING METHOD:		Direct Push		TIME STARTED:		TIME FINISHED:	
				08:55		09:15	
DRILLING EQUIPMENT:		Geoprobe 6610		LATITUDE:		LONGITUDE:	
				N/A		N/A	
SAMPLING METHOD:		Macrocore		PROJECT MANAGER:		LOGGED BY:	
				Jennifer Lewis		Nick Iannucci	

DEPTH (feet)	RECOVERY INTERVAL	SAMPLE INTERVAL	USCS KEY	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0				VEGETATIVE LAYER (PT): dark brown, wet, 75% sands, 25% silty sands.	0	0	
1						1	
2						2	
3				GRAVEL-SAND-SILT MIXTURE (GM): light brown, moist, 55% sands, 35% gravel, 10% silty sands.	0	3	
4						4	
5						5	
6						6	
7				POORLY GRADED SAND (SP): medium to light brown, dry, 85% sands, 10% silty sands, 5% gravel.	0	7	
8						8	
9						9	
10						10	
11						11	
12						12	
13						13	
14				GRAVEL-SAND-SILT MIXTURE (GM): light brown, dry, 55% sands, 35% gravel, 10% silty sands.	0	14	
15						15	
16						16	
17						17	
18						18	
19				GRAVEL-SAND-SILT MIXTURE (GM): light brown, wet, 55% sands, 35% gravel, 10% silty sands.	0	19	
20						20	

P.W. Grosser Consulting		End of Boring Depth (feet): 20	Water Table Symbol: ▼	Page 1 of 1
-------------------------	--	--------------------------------	-----------------------	-------------



PROJECT #:				RSL1801		<div><div>PWGC</div><div>Strategic Environmental Engineering Solutions</div></div>			
SITE ADDRESS:				458 Lakeland Ave, Sayville, NY					
BORING ID:				SB-002		BORING DEPTH (FT):		CORE LENGTH (FT):	
WELL ID:				N/A		BORING DIAMETER (IN):		WELL DIAMETER (IN):	
DRILLING CONTRACTOR:				Coastal Environmental Solutions, Inc.		DATE STARTED:		DATE FINISHED:	
DRILLING METHOD:				Direct Push		TIME STARTED:		TIME FINISHED:	
DRILLING EQUIPMENT:				Geoprobe 6610		LATITUDE:		LONGITUDE:	
SAMPLING METHOD:				Macrocore		PROJECT MANAGER:		LOGGED BY:	
						Jennifer Lewis		Nick Iannucci	
DEPTH (feet)	RECOVERY INTERVAL	SAMPLE INTERVAL	USCS KEY	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor		PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS	
0				VEGETATIVE LAYER (PT): dark brown, wet, 75% sands, 20% silty sands, 5% gravel.		0	0		
1				GRAVEL-SAND-SILT MIXTURE (GM): light brown, moist, 55% sands, 40% gravel, 5% silty sands.		0	1		
2							2		
3							3		
4							4		
5				POORLY GRADED SAND (SP): medium to light brown, dry, 85% sands, 10% silty sands, 5% gravel.		0	5		
6							6		
7							7		
8							8		
9				POORLY GRADED SAND (SP): medium to light brown, wet, 85% sands, 10% silty sands, 5% gravel.		0	9		
10							10		

P.W. Grosser Consulting

End of Boring Depth (feet): 10

Water Table Symbol: ▼

Page 1 of 1



PROJECT #:		RSL1801		<div><div>PWGC</div><div>Strategic Environmental Engineering Solutions</div></div>			
SITE ADDRESS:		458 Lakeland Ave, Sayville, NY					
BORING ID:		SB-003		BORING DEPTH (FT):		CORE LENGTH (FT):	
WELL ID:		N/A		BORING DIAMETER (IN):		WELL DIAMETER (IN):	
DRILLING CONTRACTOR:		Coastal Environmental Solutions, Inc.		DATE STARTED:		DATE FINISHED:	
DRILLING METHOD:		Direct Push		TIME STARTED:		TIME FINISHED:	
DRILLING EQUIPMENT:		Geoprobe 6610		LATITUDE:		LONGITUDE:	
SAMPLING METHOD:		Macrocore		PROJECT MANAGER:		LOGGED BY:	
				Jennifer Lewis		Nick Iannucci	
DEPTH (feet)	RECOVERY INTERVAL	SAMPLE INTERVAL	USCS KEY	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0				VEGETATIVE LAYER (PT): dark brown, wet, 75% sands, 25% silty sands.	0	0	
1						1	
2				GRAVEL-SAND-SILT MIXTURE (GM): redish brown, moist, 55% sands, 35% gravel, 10% silty sands.	0	2	
3						3	
4						4	
5				GRAVEL-SAND-SILT MIXTURE (GM): yellowish orange, dry, 85% sands, 10% silty sands, 5% gravel.	0	5	
6						6	
7						7	
8				INORGANIC CLAY (CL): grey, medium plasticity, 95% silty clays, 5% silty sands.	0	8	
9				GRAVEL-SAND-SILT MIXTURE (GM): redish brown, dry, 55% sands, 35% gravel, 10% silty sands.	0	9	
10						10	
11				GRAVEL-SAND-SILT MIXTURE (GM): light brown, dry, 55% sands, 35% gravel, 10% silty sands.	0	11	
12						12	
13						13	
14						14	
15				POORLY GRADED SAND (SP): medium to light brown, dry, 90% sands, 5% silty sands, 5% gravel.	0	15	
16						16	
17						17	
18						18	
19						19	
20						20	
21						21	
22						22	
23				POORLY GRADED SAND (SP): medium to light brown, wet, 90% sands, 5% silty sands, 5% gravel.	0	23	
24						24	
25						25	
26						26	


P.W. Grosser Consulting

End of Boring Depth (feet): 25

Water Table Symbol: ▼

Page 1 of 1



PROJECT #:		RSL1801					
SITE ADDRESS:		458 Lakeland Ave, Sayville, NY					
BORING ID:		SB-004		BORING DEPTH (FT):		CORE LENGTH (FT):	
				25		5	
WELL ID:		N/A		BORING DIAMETER (IN):		WELL DIAMETER (IN):	
				2		N/A	
DRILLING CONTRACTOR:		Coastal Environmental Solutions, Inc.		DATE STARTED:		DATE FINISHED:	
				05/17/2018		05/17/2018	
DRILLING METHOD:		Direct Push		TIME STARTED:		TIME FINISHED:	
				12:20		12:50	
DRILLING EQUIPMENT:		Geoprobe 6610		LATITUDE:		LONGITUDE:	
				N/A		N/A	
SAMPLING METHOD:		Macrocore		PROJECT MANAGER:		LOGGED BY:	
				Jennifer Lewis		Nick Iannucci	

DEPTH (feet)	RECOVERY INTERVAL	SAMPLE INTERVAL	USCS KEY	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor	PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0				VEGETATIVE LAYER (PT): dark brown, wet, 75% sands, 25% silty sands.	0	0	
1						1	
2						2	
3				SILTY SANDS (SM): light to medium brown, moist, 65% sands, 30% silty sands, 5% gravel.	0	3	
4						4	
5						5	
6						6	
7						7	
8						8	
9						9	
10						10	
11						11	
12				POORLY GRADED SANDS (SP): light brown, dry, 90% sands, 5% silty sands, 5% gravel	0	12	
13						13	
14						14	
15						15	
16						16	
17						17	
18						18	
19						19	
20						20	
21				POORLY GRADED SANDS (SP): light to medium brown, dry, 75% sands, 20% gravel, 5% silty sands.	0	21	
22						22	
23				POORLY GRADED SANDS (SP): light to medium brown, wet, 75% sands, 20% gravel, 5% silty sands.	0	23	
24						24	
25						25	
26						26	

P.W. Grosser Consulting		End of Boring Depth (feet): 25	Water Table Symbol: ▼	Page 1 of 1
-------------------------	--	--------------------------------	-----------------------	-------------



PROJECT #:				RSL1801		<div><div>PWGC</div><div>Strategic Environmental Engineering Solutions</div></div>			
SITE ADDRESS:				458 Lakeland Ave, Sayville, NY					
BORING ID:				SB-005		BORING DEPTH (FT):		CORE LENGTH (FT):	
WELL ID:				N/A		BORING DIAMETER (IN):		WELL DIAMETER (IN):	
DRILLING CONTRACTOR:				Coastal Environmental Solutions, Inc.		DATE STARTED:		DATE FINISHED:	
DRILLING METHOD:				Direct Push		TIME STARTED:		TIME FINISHED:	
DRILLING EQUIPMENT:				Geoprobe 6610		LATITUDE:		LONGITUDE:	
SAMPLING METHOD:				Macrocore		PROJECT MANAGER:		LOGGED BY:	
						Jennifer Lewis		Nick Iannucci	
DEPTH (feet)	RECOVERY INTERVAL	SAMPLE INTERVAL	USCS KEY	DESCRIPTION NAME (USCS): color, moist, plasticity, gravel, odor		PID Reading (ppm)	DEPTH (feet)	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS	
0				VEGETATIVE LAYER (PT): dark brown, wet, 75% sands, 25% silty sands.		0	0		
1							1		
2							2		
3				GRAVEL-SAND-SILT MIXTURE (GM): medium to light brown, moist, 75% sands, 20% gravel, 5% silty sands.		0	3		
4							4		
5							5		
6							6		
7				POORLY-GRADED GRAVEL (GP): light to medium brown, dry, 50% gravel, 45% sands, 5% silty sands.		0	7		
8							8		
9				POORLY-GRADED GRAVEL (GP): light to medium brown, wet, 50% gravel, 45% sands, 5% silty sands.		0	9		
10							10		

P.W. Grosser Consulting

End of Boring Depth (feet): 10

Water Table Symbol: ▼

Page 1 of 1



## APPENDIX B

# LABORATORY ANALYTICAL REPORTS



## ANALYTICAL REPORT

Job Number: 460-156390-1

Job Description: Island Hills Golf Course

For:  
PW Grosser Consulting  
630 Johnson Ave  
Suite 7  
Bohemia, NY 11716  
Attention: Ms. Jennifer Lewis



Approved for release.  
Thomas A Chupela  
Project Management Assistant I  
5/29/2018 11:55 AM

---

Designee for  
Melissa Haas, Project Manager I  
777 New Durham Road, Edison, NJ, 08817  
(203)944-1310  
melissa.haas@testamericainc.com  
05/29/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LA000132

**TestAmerica Laboratories, Inc.**

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817  
Tel (732) 549-3900 Fax (732) 549-3679 [www.testamericainc.com](http://www.testamericainc.com)





Job Number: 460-156390-1

Job Description: Island Hills Golf Course

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Approved for release.  
Thomas A. Chupela  
Project Management Assistant I  
5/29/2018 11:55 AM

---

Designee for  
Melissa Haas



## **CASE NARRATIVE**

**Client: PW Grosser Consulting**

**Project: Island Hills Golf Course**

**Report Number: 460-156390-1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 5/17/2018 7:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.8° C and 2.0° C.

### **Receipt Exceptions**

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed.

The COC lists 4 containers for each of the following sample, received 6 containers each sample.

Per laboratory policy, the Trip Blank sample date and time were added to reflect the latest sample date and time of the sampling event.

The Chain-of-Custody (COC) was improperly completed. The sample IDs should have hyphens (i.e. SB-001)

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples SB-001 (11'-13') (460-156390-1), SB-002 (6'-8') (460-156390-2), SB-003 (8'-10') (460-156390-3), SB-004 (2'-4') (460-156390-4), SB-004 (20'-22') (460-156390-5), SB-005 (2'-4') (460-156390-6) and DUP-001 (460-156390-7) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 05/18/2018 and analyzed on 05/20/2018 and 05/21/2018.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-520812 recovered outside control limits for the following analytes: 2-Hexanone and Methyl acetate.

The laboratory control sample duplicate (LCSD) for analytical batch 460-520984 recovered outside control limits for the following analyte: 2-Hexanone.

Methylene Chloride was detected in method blank MB 460-520812/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Methylene Chloride was detected in method blank MB 460-520984/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.



#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples EB-001 (460-156390-8) and Trip Blank (460-156390-9) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 05/26/2018.

The continuing calibration verification (CCV) analyzed in batch 460-522684 was outside the method criteria for the following analyte(s): 1,1,1-Trichloroethane, Bromoform, Carbon tetrachloride, Dichlorodifluoromethane and trans-1,2-Dichloroethene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Acetone was detected in method blank MB 460-522684/9 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

#### **SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples SB-001 (11'-13') (460-156390-1), SB-002 (6'-8') (460-156390-2), SB-003 (8'-10') (460-156390-3), SB-004 (2'-4') (460-156390-4), SB-004 (20'-22') (460-156390-5), SB-005 (2'-4') (460-156390-6) and DUP-001 (460-156390-7) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 05/19/2018 and analyzed on 05/20/2018 and 05/21/2018.

The continuing calibration verification (CCV) analyzed in batch 460-520783 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Surrogates recoveries for the following laboratory control sample (LCS) associated with batch 460-520592 were outside the upper control limits. All spike recoveries were within limits. Sample has been qualified and reported.

The continuing calibration verification (CCV) analyzed in batch 460-520791 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) associated with batch 460-520791 recovered above the upper control limit for Caprolactam. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Surrogates recoveries for the following laboratory control sample (LCS) associated with batch 460-520594 were outside the upper control limits. All spike recoveries were within limits. Sample has been qualified and reported.

Several analytes failed the recovery criteria low for the Matrix Spike/Matrix Spike Duplicate (MS/MSD) of sample 460-155982-32 in batch 460-520783.

Several analytes failed the recovery criteria low for the MS/MSD of sample SB-004 (20'-22')MS (460-156390-5) in batch 460-520791.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

#### **SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)**

Sample EB-001 (460-156390-8) was analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 05/19/2018 and analyzed on 05/21/2018.

The surrogate recovery for the LCS/LCSD associated with preparation batch 460-520720 and analytical batch 460-520998 was outside the upper control limits. (LCS 460-520720/4-A) and (LCSD 460-520720/5-A)

Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: EB-001 (460-156390-8). These results have been reported and qualified.

The continuing calibration verification (CCV) associated with batch 460-520998 recovered above the upper control limit for 3,3'-Dichlorobenzidine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been



reported. The following sample is impacted: (CCVIS 460-520998/2).

The continuing calibration verification (CCV) analyzed in batch 460-520998 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-520720 and analytical batch 460-520998 recovered outside control limits for the following analytes: < Benzaldehyde>. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-520720 and analytical batch 460-520998 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for five analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 460-520720 had ( 2,4-Dinitrophenol, 3,3'-Dichlorobenzidine, 4-Chloroaniline and 4,6-Dinitro-2-methylphenol) outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified (LCSD 460-520720/3-A)

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-520720 and analytical batch 460-520998 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol and Hexachlorocyclopentadiene

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

#### **PESTICIDES**

Samples SB-001 (11'-13') (460-156390-1), SB-002 (6'-8') (460-156390-2), SB-003 (8'-10') (460-156390-3), SB-004 (2'-4') (460-156390-4), SB-004 (20'-22') (460-156390-5), SB-005 (2'-4') (460-156390-6) and DUP-001 (460-156390-7) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 05/18/2018 and analyzed on 05/21/2018.

Endrin ketone failed the recovery criteria low for the MS of sample 460-156204-2 in batch 460-521047. 4,4'-DDE failed the recovery criteria high.

4,4'-DDE failed the recovery criteria high for the MSD of sample 460-156204-2 in batch 460-521047. Endrin ketone exceeded the RPD limit.

Refer to the QC report for details.

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

#### **PESTICIDES**

Sample EB-001 (460-156390-8) was analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 05/18/2018 and analyzed on 05/21/2018.

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

#### **POLYCHLORINATED BIPHENYLS**

Samples SB-001 (11'-13') (460-156390-1), SB-002 (6'-8') (460-156390-2), SB-003 (8'-10') (460-156390-3), SB-004 (2'-4') (460-156390-4), SB-004 (20'-22') (460-156390-5), SB-005 (2'-4') (460-156390-6) and DUP-001 (460-156390-7) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 05/18/2018 and analyzed on 05/19/2018 and 05/20/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

#### **POLYCHLORINATED BIPHENYLS (PCBS)**

Sample EB-001 (460-156390-8) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 05/18/2018 and analyzed on 05/19/2018.



Aroclor 1016 failed the recovery criteria high for the MS of sample 460-156240-13 in batch 460-520668.

Refer to the QC report for details.

No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

#### **CHLORINATED HERBICIDES**

Samples SB-001 (11'-13') (460-156390-1), SB-002 (6'-8') (460-156390-2), SB-003 (8'-10') (460-156390-3), SB-004 (2'-4') (460-156390-4), SB-004 (20'-22') (460-156390-5), SB-005 (2'-4') (460-156390-6) and DUP-001 (460-156390-7) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 05/20/2018 and analyzed on 05/21/2018.

The continuing calibration verification (CCV) associated with batch 521036 recovered above the upper control limit for Dinosab on the primary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for 460-156356-A-21-C MS and 460-156356-A-21-D MSD.

Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

#### **CHLORINATED HERBICIDES**

Sample EB-001 (460-156390-8) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 05/20/2018 and analyzed on 05/21/2018.

The laboratory control sample duplicate (LCSD) for 520804 recovered outside control limits for the following analytes: 2,4-D on the primary column. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

The closing continuing calibration verification (CCVC) associated with batch 521034 recovered above the upper control limit for 2,4-D, Silvex (2,4,5-TP) and 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL METALS (ICP)**

Samples SB-001 (11'-13') (460-156390-1), SB-002 (6'-8') (460-156390-2), SB-003 (8'-10') (460-156390-3), SB-004 (2'-4') (460-156390-4), SB-004 (20'-22') (460-156390-5), SB-005 (2'-4') (460-156390-6) and DUP-001 (460-156390-7) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010C. The samples were prepared and analyzed on 05/24/2018.

Iron failed the recovery criteria low for the MS of sample SB-001 (11'-13')MS (460-156390-1) in batch 460-522179. Aluminum failed the recovery criteria high.

Chromium, Copper, Iron, Lead, Magnesium and Zinc exceeded the RPD limit for the duplicate of sample SB-001 (11'-13')DU (460-156390-1).

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Samples SB-001 (11'-13') (460-156390-1)[4X], SB-002 (6'-8') (460-156390-2)[4X], SB-003 (8'-10') (460-156390-3)[4X], SB-004 (2'-4') (460-156390-4)[4X], SB-004 (20'-22') (460-156390-5)[4X], SB-005 (2'-4') (460-156390-6)[4X] and DUP-001 (460-156390-7)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Total Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL METALS (ICP/MS)**



Sample EB-001 (460-156390-8) was analyzed for Total Metals (ICP/MS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 05/24/2018 and analyzed on 05/27/2018.

No difficulties were encountered during the Metals analysis.

All quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY**

Sample EB-001 (460-156390-8) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 05/21/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY**

Samples SB-001 (11'-13') (460-156390-1), SB-002 (6'-8') (460-156390-2), SB-003 (8'-10') (460-156390-3), SB-004 (2'-4') (460-156390-4), SB-004 (20'-22') (460-156390-5), SB-005 (2'-4') (460-156390-6) and DUP-001 (460-156390-7) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 05/22/2018.

Mercury failed the recovery criteria high for the MS of sample 460-156361-25 in batch 460-521461.

Mercury exceeded the RPD limit for the duplicate of sample 460-156361-25.

Refer to the QC report for details.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

#### **PERCENT SOLIDS/PERCENT MOISTURE**

Samples SB-001 (11'-13') (460-156390-1), SB-002 (6'-8') (460-156390-2), SB-003 (8'-10') (460-156390-3), SB-004 (2'-4') (460-156390-4), SB-004 (20'-22') (460-156390-5), SB-005 (2'-4') (460-156390-6) and DUP-001 (460-156390-7) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 05/22/2018.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156390-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156390-1</b>	<b>SB-001 (11'-13')</b>					
2-Butanone (MEK)		0.0028	J	0.0047	mg/Kg	8260C
Acetone		0.018		0.0047	mg/Kg	8260C
Ethylbenzene		0.00027	J	0.00095	mg/Kg	8260C
Methylene Chloride		0.00089	J B	0.00095	mg/Kg	8260C
m-Xylene & p-Xylene		0.00099		0.00095	mg/Kg	8260C
o-Xylene		0.00032	J	0.00095	mg/Kg	8260C
Aluminum		554	F1	38.2	mg/Kg	6010C
Arsenic		1.0	J	2.9	mg/Kg	6010C
Beryllium		0.073	J	0.38	mg/Kg	6010C
Chromium		1.3	J	1.9	mg/Kg	6010C
Copper		2.1	J	4.8	mg/Kg	6010C
Iron		2380		28.7	mg/Kg	6010C
Lead		1.5	J	1.9	mg/Kg	6010C
Magnesium		118	J	956	mg/Kg	6010C
Manganese		18.1		2.9	mg/Kg	6010C
Potassium		56.7	J	956	mg/Kg	6010C
Vanadium		2.0	J	9.6	mg/Kg	6010C
Zinc		2.1	J	5.7	mg/Kg	6010C
Percent Moisture		2.3		1.0	%	Moisture
Percent Solids		97.7		1.0	%	Moisture
<b>460-156390-2</b>	<b>SB-002 (6'-8')</b>					
2-Butanone (MEK)		0.0049		0.0045	mg/Kg	8260C
Acetone		0.026		0.0045	mg/Kg	8260C
Methylene Chloride		0.00060	J B	0.00090	mg/Kg	8260C
m-Xylene & p-Xylene		0.00098		0.00090	mg/Kg	8260C
o-Xylene		0.00039	J	0.00090	mg/Kg	8260C
Aluminum		732		43.9	mg/Kg	6010C
Beryllium		0.072	J	0.44	mg/Kg	6010C
Chromium		2.5		2.2	mg/Kg	6010C
Copper		2.4	J	5.5	mg/Kg	6010C
Iron		2440		32.9	mg/Kg	6010C
Lead		0.91	J	2.2	mg/Kg	6010C
Magnesium		92.1	J	1100	mg/Kg	6010C
Manganese		87.2		3.3	mg/Kg	6010C
Nickel		2.1	J	8.8	mg/Kg	6010C
Vanadium		2.8	J	11.0	mg/Kg	6010C
Zinc		4.3	J	6.6	mg/Kg	6010C
Percent Moisture		12.4		1.0	%	Moisture
Percent Solids		87.6		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156390-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156390-3</b>	<b>SB-003 (8'-10')</b>					
Acetone		0.016		0.0057	mg/Kg	8260C
Methylene Chloride		0.0030	B	0.0011	mg/Kg	8260C
m-Xylene & p-Xylene		0.0010	J	0.0011	mg/Kg	8260C
o-Xylene		0.00026	J	0.0011	mg/Kg	8260C
Aluminum		2260		41.7	mg/Kg	6010C
Arsenic		1.2	J	3.1	mg/Kg	6010C
Barium		10.2	J	41.7	mg/Kg	6010C
Beryllium		0.19	J	0.42	mg/Kg	6010C
Chromium		6.9		2.1	mg/Kg	6010C
Cobalt		1.6	J	10.4	mg/Kg	6010C
Copper		4.9	J	5.2	mg/Kg	6010C
Iron		5610		31.3	mg/Kg	6010C
Lead		2.7		2.1	mg/Kg	6010C
Magnesium		507	J	1040	mg/Kg	6010C
Manganese		50.9		3.1	mg/Kg	6010C
Nickel		2.4	J	8.3	mg/Kg	6010C
Potassium		129	J	1040	mg/Kg	6010C
Vanadium		5.7	J	10.4	mg/Kg	6010C
Zinc		7.1		6.3	mg/Kg	6010C
Percent Moisture		8.7		1.0	%	Moisture
Percent Solids		91.3		1.0	%	Moisture
<b>460-156390-4</b>	<b>SB-004 (2'-4')</b>					
Acetone		0.0069		0.0041	mg/Kg	8260C
Methylene Chloride		0.0011	B	0.00082	mg/Kg	8260C
m-Xylene & p-Xylene		0.00069	J	0.00082	mg/Kg	8260C
o-Xylene		0.00029	J	0.00082	mg/Kg	8260C
Aluminum		2530		41.1	mg/Kg	6010C
Barium		3.8	J	41.1	mg/Kg	6010C
Beryllium		0.15	J	0.41	mg/Kg	6010C
Chromium		4.8		2.1	mg/Kg	6010C
Cobalt		1.5	J	10.3	mg/Kg	6010C
Copper		2.6	J	5.1	mg/Kg	6010C
Iron		4110		30.8	mg/Kg	6010C
Lead		1.5	J	2.1	mg/Kg	6010C
Magnesium		388	J	1030	mg/Kg	6010C
Manganese		54.3		3.1	mg/Kg	6010C
Nickel		2.4	J	8.2	mg/Kg	6010C
Potassium		131	J	1030	mg/Kg	6010C
Vanadium		5.8	J	10.3	mg/Kg	6010C
Zinc		5.1	J	6.2	mg/Kg	6010C
Mercury		0.013	J	0.018	mg/Kg	7471B
Percent Moisture		5.5		1.0	%	Moisture
Percent Solids		94.5		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156390-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156390-5</b>	<b>SB-004 (20'-22')</b>					
Acetone		0.017		0.0049	mg/Kg	8260C
Methylene Chloride		0.0015	B	0.00099	mg/Kg	8260C
m-Xylene & p-Xylene		0.00081	J	0.00099	mg/Kg	8260C
o-Xylene		0.00030	J	0.00099	mg/Kg	8260C
Aluminum		551		40.7	mg/Kg	6010C
Beryllium		0.080	J	0.41	mg/Kg	6010C
Chromium		2.5		2.0	mg/Kg	6010C
Copper		2.8	J	5.1	mg/Kg	6010C
Iron		2920		30.5	mg/Kg	6010C
Lead		1.6	J	2.0	mg/Kg	6010C
Magnesium		98.3	J	1020	mg/Kg	6010C
Manganese		44.1		3.1	mg/Kg	6010C
Nickel		0.88	J	8.1	mg/Kg	6010C
Potassium		57.9	J	1020	mg/Kg	6010C
Vanadium		3.0	J	10.2	mg/Kg	6010C
Zinc		2.9	J	6.1	mg/Kg	6010C
Percent Moisture		6.4		1.0	%	Moisture
Percent Solids		93.6		1.0	%	Moisture
<b>460-156390-6</b>	<b>SB-005 (2'-4')</b>					
2-Butanone (MEK)		0.0089		0.0041	mg/Kg	8260C
Acetone		0.059		0.0041	mg/Kg	8260C
Ethylbenzene		0.00020	J	0.00083	mg/Kg	8260C
Methylene Chloride		0.0017	B	0.00083	mg/Kg	8260C
m-Xylene & p-Xylene		0.00065	J	0.00083	mg/Kg	8260C
o-Xylene		0.00023	J	0.00083	mg/Kg	8260C
Aluminum		1200		39.4	mg/Kg	6010C
Beryllium		0.068	J	0.39	mg/Kg	6010C
Chromium		3.8		2.0	mg/Kg	6010C
Cobalt		2.1	J	9.8	mg/Kg	6010C
Copper		3.2	J	4.9	mg/Kg	6010C
Iron		2940		29.5	mg/Kg	6010C
Lead		0.70	J	2.0	mg/Kg	6010C
Magnesium		202	J	984	mg/Kg	6010C
Manganese		157		3.0	mg/Kg	6010C
Nickel		2.6	J	7.9	mg/Kg	6010C
Vanadium		3.0	J	9.8	mg/Kg	6010C
Zinc		4.8	J	5.9	mg/Kg	6010C
Percent Moisture		1.3		1.0	%	Moisture
Percent Solids		98.7		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156390-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156390-7</b>	<b>DUP-001</b>					
2-Butanone (MEK)		0.0039	J	0.0050	mg/Kg	8260C
Acetone		0.024		0.0050	mg/Kg	8260C
Ethylbenzene		0.00023	J	0.00099	mg/Kg	8260C
Methylene Chloride		0.0012	B	0.00099	mg/Kg	8260C
m-Xylene & p-Xylene		0.0012		0.00099	mg/Kg	8260C
o-Xylene		0.00043	J	0.00099	mg/Kg	8260C
Aluminum		1600		41.7	mg/Kg	6010C
Arsenic		0.90	J	3.1	mg/Kg	6010C
Barium		6.4	J	41.7	mg/Kg	6010C
Beryllium		0.13	J	0.42	mg/Kg	6010C
Chromium		3.1		2.1	mg/Kg	6010C
Copper		3.9	J	5.2	mg/Kg	6010C
Iron		4350		31.3	mg/Kg	6010C
Lead		1.1	J	2.1	mg/Kg	6010C
Magnesium		284	J	1040	mg/Kg	6010C
Manganese		37.0		3.1	mg/Kg	6010C
Nickel		1.3	J	8.3	mg/Kg	6010C
Potassium		100	J	1040	mg/Kg	6010C
Vanadium		4.0	J	10.4	mg/Kg	6010C
Zinc		4.2	J	6.3	mg/Kg	6010C
Percent Moisture		9.4		1.0	%	Moisture
Percent Solids		90.6		1.0	%	Moisture
<b>460-156390-8</b>	<b>EB-001</b>					
2-Butanone (MEK)		19		5.0	ug/L	8260C
2-Hexanone		2.9	J	5.0	ug/L	8260C
Acetone		27	B	5.0	ug/L	8260C
Methylene Chloride		0.83	J	1.0	ug/L	8260C
m-Xylene & p-Xylene		0.86	J	1.0	ug/L	8260C
o-Xylene		0.33	J	1.0	ug/L	8260C
Acetophenone		3.4	J	10	ug/L	8270D
Diethyl phthalate		1.3	J	10	ug/L	8270D
<b>460-156390-9TB</b>	<b>TRIP BLANK</b>					
Acetone		2.0	J B	5.0	ug/L	8260C



## METHOD SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156390-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Volatile Organic Compounds by GC/MS	TAL EDI	SW846 8260C	
Closed System Purge and Trap	TAL EDI		SW846 5035
Semivolatile Organic Compounds (GC/MS)	TAL EDI	SW846 8270D	
Microwave Extraction	TAL EDI		SW846 3546
Organochlorine Pesticides (GC)	TAL EDI	SW846 8081B	
Microwave Extraction	TAL EDI		SW846 3546
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL EDI	SW846 8082A	
Microwave Extraction	TAL EDI		SW846 3546
Herbicides (GC)	TAL EDI	SW846 8151A	
Extraction (Herbicides)	TAL EDI		SW846 8151A
Metals (ICP)	TAL EDI	SW846 6010C	
Preparation, Metals	TAL EDI		SW846 3050B
Mercury (CVAA)	TAL EDI	SW846 7471B	
Preparation, Mercury	TAL EDI		SW846 7471B
Percent Moisture	TAL EDI	EPA Moisture	
<b>Matrix: Water</b>			
Volatile Organic Compounds by GC/MS	TAL EDI	SW846 8260C	
Purge and Trap	TAL EDI		SW846 5030C
Semivolatile Organic Compounds (GC/MS)	TAL EDI	SW846 8270D	
Liquid-Liquid Extraction (Separatory Funnel)	TAL EDI		SW846 3510C
Organochlorine Pesticides (GC)	TAL EDI	SW846 8081B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL EDI		SW846 3510C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL EDI	SW846 8082A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL EDI		SW846 3510C
Herbicides (GC)	TAL EDI	SW846 8151A	
Extraction (Herbicides)	TAL EDI		SW846 8151A
Metals (ICP/MS)	TAL EDI	SW846 6020A	
Preparation, Total Metals	TAL EDI		SW846 3010A
Mercury (CVAA)	TAL EDI	SW846 7470A	
Preparation, Mercury	TAL EDI		SW846 7470A

### Lab References:

TAL EDI = TestAmerica Edison

### Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.



## METHOD / ANALYST SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156390-1

Method	Analyst	Analyst ID
SW846 8260C	Starzec, Margaret	MZS
SW846 8260C	Tupayachi, Audberto	AAT
SW846 8270D	Khlungprakhon, Sukanya	SK
SW846 8270D	Nimer, Diaa	DAN
SW846 8081B	Kapoor, Sita	SAK
SW846 8082A	Zhang, Jinyuan X	JXZ
SW846 8151A	Kapoor, Sita	SAK
SW846 6010C	Chang, Churn Der	CDC
SW846 6020A	Chen, Mandi	MDC
SW846 7470A	Sheikh, Razia B	RBS
SW846 7471B	Staib, Thomas	TJS
EPA Moisture	Potts, Brandon J	BJP



## SAMPLE SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156390-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-156390-1	SB-001 (11'-13')	Solid	05/17/2018 0925	05/17/2018 1940
460-156390-2	SB-002 (6'-8')	Solid	05/17/2018 1015	05/17/2018 1940
460-156390-3	SB-003 (8'-10')	Solid	05/17/2018 1135	05/17/2018 1940
460-156390-4	SB-004 (2'-4')	Solid	05/17/2018 1235	05/17/2018 1940
460-156390-5	SB-004 (20'-22')	Solid	05/17/2018 1245	05/17/2018 1940
460-156390-6	SB-005 (2'-4')	Solid	05/17/2018 1435	05/17/2018 1940
460-156390-7	DUP-001	Solid	05/17/2018 0000	05/17/2018 1940
460-156390-8	EB-001	Water	05/17/2018 1030	05/17/2018 1940
460-156390-9TB	Trip Blank	Water	05/17/2018 1435	05/17/2018 1940



# **SAMPLE RESULTS**



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-001 (11'-13')

Lab Sample ID: 460-156390-1

Date Sampled: 05/17/2018 0925

Client Matrix: Solid

% Moisture: 2.3

Date Received: 05/17/2018 1940

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30455.D

Dilution: 1.0

Initial Weight/Volume: 5.388 g

Analysis Date: 05/20/2018 0834

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1001

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.00095	U	0.00022	0.00095
1,1,2,2-Tetrachloroethane		0.00095	U	0.00020	0.00095
1,1,2-Trichloro-1,2,2-trifluoroethane		0.00095	U	0.00029	0.00095
1,1,2-Trichloroethane		0.00095	U	0.00017	0.00095
1,1-Dichloroethane		0.00095	U	0.00020	0.00095
1,1-Dichloroethene		0.00095	U	0.00021	0.00095
1,2,3-Trichlorobenzene		0.00095	U	0.00017	0.00095
1,2,4-Trichlorobenzene		0.00095	U	0.000087	0.00095
1,2-Dibromo-3-Chloropropane		0.00095	U	0.00044	0.00095
1,2-Dichlorobenzene		0.00095	U	0.00014	0.00095
1,2-Dichloroethane		0.00095	U	0.00028	0.00095
1,2-Dichloropropane		0.00095	U	0.00040	0.00095
1,3-Dichlorobenzene		0.00095	U	0.00015	0.00095
1,4-Dichlorobenzene		0.00095	U	0.000095	0.00095
1,4-Dioxane		0.019	U	0.0087	0.019
2-Butanone (MEK)		0.0028	J	0.0011	0.0047
2-Hexanone		0.0047	U *	0.00074	0.0047
4-Methyl-2-pentanone (MIBK)		0.0047	U	0.00063	0.0047
Acetone		0.018		0.0036	0.0047
Benzene		0.00095	U	0.00024	0.00095
Bromoform		0.00095	U	0.00040	0.00095
Bromomethane		0.00095	U	0.00045	0.00095
Carbon disulfide		0.00095	U	0.00025	0.00095
Carbon tetrachloride		0.00095	U	0.00017	0.00095
Chlorobenzene		0.00095	U	0.00017	0.00095
Chlorobromomethane		0.00095	U	0.00027	0.00095
Chlorodibromomethane		0.00095	U	0.00018	0.00095
Chloroethane		0.00095	U	0.00050	0.00095
Chloroform		0.00095	U	0.00030	0.00095
Chloromethane		0.00095	U	0.00041	0.00095
cis-1,2-Dichloroethene		0.00095	U	0.00014	0.00095
cis-1,3-Dichloropropene		0.00095	U	0.00026	0.00095
Cyclohexane		0.00095	U	0.00021	0.00095
Dichlorobromomethane		0.00095	U	0.00024	0.00095
Dichlorodifluoromethane		0.00095	U	0.00032	0.00095
Ethylbenzene		0.00027	J	0.00019	0.00095
Ethylene Dibromide		0.00095	U	0.00017	0.00095
Isopropylbenzene		0.00095	U	0.00012	0.00095
Methyl acetate		0.0047	U *	0.0041	0.0047
Methyl tert-butyl ether		0.00095	U	0.00012	0.00095
Methylcyclohexane		0.00095	U	0.00015	0.00095
Methylene Chloride		0.00089	J B	0.00015	0.00095
m-Xylene & p-Xylene		0.00099		0.00017	0.00095
o-Xylene		0.00032	J	0.000090	0.00095
Styrene		0.00095	U	0.00012	0.00095
Tetrachloroethene		0.00095	U	0.00014	0.00095



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-001 (11'-13')

Lab Sample ID: 460-156390-1

Date Sampled: 05/17/2018 0925

Client Matrix: Solid

% Moisture: 2.3

Date Received: 05/17/2018 1940

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30455.D

Dilution: 1.0

Initial Weight/Volume: 5.388 g

Analysis Date: 05/20/2018 0834

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1001

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.00095	U	0.00059	0.00095
trans-1,2-Dichloroethene		0.00095	U	0.00023	0.00095
trans-1,3-Dichloropropene		0.00095	U	0.00025	0.00095
Trichloroethene		0.00095	U	0.00014	0.00095
Trichlorofluoromethane		0.00095	U	0.00039	0.00095
Vinyl chloride		0.00095	U	0.00052	0.00095

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		78 - 135
4-Bromofluorobenzene	114		67 - 126
Dibromofluoromethane (Surr)	100		61 - 149
Toluene-d8 (Surr)	99		73 - 121



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-002 (6'-8')

Lab Sample ID: 460-156390-2

Date Sampled: 05/17/2018 1015

Client Matrix: Solid

% Moisture: 12.4

Date Received: 05/17/2018 1940

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30456.D

Dilution: 1.0

Initial Weight/Volume: 6.321 g

Analysis Date: 05/20/2018 0857

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1002

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.00090	U	0.00021	0.00090
1,1,2,2-Tetrachloroethane		0.00090	U	0.00019	0.00090
1,1,2-Trichloro-1,2,2-trifluoroethane		0.00090	U	0.00027	0.00090
1,1,2-Trichloroethane		0.00090	U	0.00016	0.00090
1,1-Dichloroethane		0.00090	U	0.00019	0.00090
1,1-Dichloroethene		0.00090	U	0.00020	0.00090
1,2,3-Trichlorobenzene		0.00090	U	0.00016	0.00090
1,2,4-Trichlorobenzene		0.00090	U	0.000083	0.00090
1,2-Dibromo-3-Chloropropane		0.00090	U	0.00042	0.00090
1,2-Dichlorobenzene		0.00090	U	0.00013	0.00090
1,2-Dichloroethane		0.00090	U	0.00027	0.00090
1,2-Dichloropropane		0.00090	U	0.00038	0.00090
1,3-Dichlorobenzene		0.00090	U	0.00014	0.00090
1,4-Dichlorobenzene		0.00090	U	0.000090	0.00090
1,4-Dioxane		0.018	U	0.0083	0.018
2-Butanone (MEK)		0.0049		0.0010	0.0045
2-Hexanone		0.0045	U *	0.00070	0.0045
4-Methyl-2-pentanone (MIBK)		0.0045	U	0.00060	0.0045
Acetone		0.026		0.0034	0.0045
Benzene		0.00090	U	0.00023	0.00090
Bromoform		0.00090	U	0.00038	0.00090
Bromomethane		0.00090	U	0.00043	0.00090
Carbon disulfide		0.00090	U	0.00024	0.00090
Carbon tetrachloride		0.00090	U	0.00016	0.00090
Chlorobenzene		0.00090	U	0.00016	0.00090
Chlorobromomethane		0.00090	U	0.00025	0.00090
Chlorodibromomethane		0.00090	U	0.00018	0.00090
Chloroethane		0.00090	U	0.00047	0.00090
Chloroform		0.00090	U	0.00029	0.00090
Chloromethane		0.00090	U	0.00039	0.00090
cis-1,2-Dichloroethene		0.00090	U	0.00014	0.00090
cis-1,3-Dichloropropene		0.00090	U	0.00025	0.00090
Cyclohexane		0.00090	U	0.00020	0.00090
Dichlorobromomethane		0.00090	U	0.00023	0.00090
Dichlorodifluoromethane		0.00090	U	0.00031	0.00090
Ethylbenzene		0.00090	U	0.00018	0.00090
Ethylene Dibromide		0.00090	U	0.00016	0.00090
Isopropylbenzene		0.00090	U	0.00011	0.00090
Methyl acetate		0.0045	U *	0.0039	0.0045
Methyl tert-butyl ether		0.00090	U	0.00011	0.00090
Methylcyclohexane		0.00090	U	0.00014	0.00090
Methylene Chloride		0.00060	J B	0.00015	0.00090
m-Xylene & p-Xylene		0.00098		0.00016	0.00090
o-Xylene		0.00039	J	0.000086	0.00090
Styrene		0.00090	U	0.00011	0.00090
Tetrachloroethene		0.00090	U	0.00013	0.00090



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-002 (6'-8')

Lab Sample ID: 460-156390-2

Client Matrix: Solid

% Moisture: 12.4

Date Sampled: 05/17/2018 1015

Date Received: 05/17/2018 1940

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30456.D

Dilution: 1.0

Initial Weight/Volume: 6.321 g

Analysis Date: 05/20/2018 0857

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1002

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.00090	U	0.00056	0.00090
trans-1,2-Dichloroethene		0.00090	U	0.00022	0.00090
trans-1,3-Dichloropropene		0.00090	U	0.00024	0.00090
Trichloroethene		0.00090	U	0.00013	0.00090
Trichlorofluoromethane		0.00090	U	0.00037	0.00090
Vinyl chloride		0.00090	U	0.00049	0.00090

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		78 - 135
4-Bromofluorobenzene	115		67 - 126
Dibromofluoromethane (Surr)	102		61 - 149
Toluene-d8 (Surr)	97		73 - 121



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-003 (8'-10')

Lab Sample ID: 460-156390-3

Date Sampled: 05/17/2018 1135

Client Matrix: Solid

% Moisture: 8.7

Date Received: 05/17/2018 1940

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520984

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30510.D

Dilution: 1.0

Initial Weight/Volume: 4.788 g

Analysis Date: 05/21/2018 0905

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1003

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.0011	U	0.00027	0.0011
1,1,2,2-Tetrachloroethane		0.0011	U	0.00024	0.0011
1,1,2-Trichloro-1,2,2-trifluoroethane		0.0011	U	0.00034	0.0011
1,1,2-Trichloroethane		0.0011	U	0.00020	0.0011
1,1-Dichloroethane		0.0011	U	0.00024	0.0011
1,1-Dichloroethene		0.0011	U	0.00026	0.0011
1,2,3-Trichlorobenzene		0.0011	U	0.00021	0.0011
1,2,4-Trichlorobenzene		0.0011	U	0.00011	0.0011
1,2-Dibromo-3-Chloropropane		0.0011	U	0.00053	0.0011
1,2-Dichlorobenzene		0.0011	U	0.00016	0.0011
1,2-Dichloroethane		0.0011	U	0.00034	0.0011
1,2-Dichloropropane		0.0011	U	0.00048	0.0011
1,3-Dichlorobenzene		0.0011	U	0.00018	0.0011
1,4-Dichlorobenzene		0.0011	U	0.00011	0.0011
1,4-Dioxane		0.023	U	0.010	0.023
2-Butanone (MEK)		0.0057	U	0.0013	0.0057
2-Hexanone		0.0057	U *	0.00089	0.0057
4-Methyl-2-pentanone (MIBK)		0.0057	U	0.00076	0.0057
Acetone		0.016		0.0043	0.0057
Benzene		0.0011	U	0.00030	0.0011
Bromoform		0.0011	U	0.00049	0.0011
Bromomethane		0.0011	U	0.00054	0.0011
Carbon disulfide		0.0011	U	0.00030	0.0011
Carbon tetrachloride		0.0011	U	0.00021	0.0011
Chlorobenzene		0.0011	U	0.00020	0.0011
Chlorobromomethane		0.0011	U	0.00032	0.0011
Chlorodibromomethane		0.0011	U	0.00022	0.0011
Chloroethane		0.0011	U	0.00060	0.0011
Chloroform		0.0011	U	0.00036	0.0011
Chloromethane		0.0011	U	0.00050	0.0011
cis-1,2-Dichloroethene		0.0011	U	0.00017	0.0011
cis-1,3-Dichloropropene		0.0011	U	0.00031	0.0011
Cyclohexane		0.0011	U	0.00025	0.0011
Dichlorobromomethane		0.0011	U	0.00029	0.0011
Dichlorodifluoromethane		0.0011	U	0.00039	0.0011
Ethylbenzene		0.0011	U	0.00023	0.0011
Ethylene Dibromide		0.0011	U	0.00021	0.0011
Isopropylbenzene		0.0011	U	0.00014	0.0011
Methyl acetate		0.0057	U	0.0049	0.0057
Methyl tert-butyl ether		0.0011	U	0.00014	0.0011
Methylcyclohexane		0.0011	U	0.00018	0.0011
Methylene Chloride		0.0030	B	0.00019	0.0011
m-Xylene & p-Xylene		0.0010	J	0.00020	0.0011
o-Xylene		0.00026	J	0.00011	0.0011
Styrene		0.0011	U	0.00014	0.0011
Tetrachloroethene		0.0011	U	0.00016	0.0011



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-003 (8'-10')

Lab Sample ID: 460-156390-3

Client Matrix: Solid

% Moisture: 8.7

Date Sampled: 05/17/2018 1135

Date Received: 05/17/2018 1940

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520984

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30510.D

Dilution: 1.0

Initial Weight/Volume: 4.788 g

Analysis Date: 05/21/2018 0905

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1003

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.0011	U	0.00071	0.0011
trans-1,2-Dichloroethene		0.0011	U	0.00028	0.0011
trans-1,3-Dichloropropene		0.0011	U	0.00030	0.0011
Trichloroethene		0.0011	U	0.00016	0.0011
Trichlorofluoromethane		0.0011	U	0.00046	0.0011
Vinyl chloride		0.0011	U	0.00062	0.0011

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		78 - 135
4-Bromofluorobenzene	80		67 - 126
Dibromofluoromethane (Surr)	115		61 - 149
Toluene-d8 (Surr)	104		73 - 121



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-004 (2'-4')**

Lab Sample ID: 460-156390-4

Date Sampled: 05/17/2018 1235

Client Matrix: Solid

% Moisture: 5.5

Date Received: 05/17/2018 1940

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30458.D

Dilution: 1.0

Initial Weight/Volume: 6.419 g

Analysis Date: 05/20/2018 0945

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1004

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.00082	U	0.00019	0.00082
1,1,2,2-Tetrachloroethane		0.00082	U	0.00018	0.00082
1,1,2-Trichloro-1,2,2-trifluoroethane		0.00082	U	0.00025	0.00082
1,1,2-Trichloroethane		0.00082	U	0.00015	0.00082
1,1-Dichloroethane		0.00082	U	0.00017	0.00082
1,1-Dichloroethene		0.00082	U	0.00019	0.00082
1,2,3-Trichlorobenzene		0.00082	U	0.00015	0.00082
1,2,4-Trichlorobenzene		0.00082	U	0.000076	0.00082
1,2-Dibromo-3-Chloropropane		0.00082	U	0.00038	0.00082
1,2-Dichlorobenzene		0.00082	U	0.00012	0.00082
1,2-Dichloroethane		0.00082	U	0.00024	0.00082
1,2-Dichloropropane		0.00082	U	0.00035	0.00082
1,3-Dichlorobenzene		0.00082	U	0.00013	0.00082
1,4-Dichlorobenzene		0.00082	U	0.000082	0.00082
1,4-Dioxane		0.016	U	0.0076	0.016
2-Butanone (MEK)		0.0041	U	0.00091	0.0041
2-Hexanone		0.0041	U *	0.00064	0.0041
4-Methyl-2-pentanone (MIBK)		0.0041	U	0.00055	0.0041
Acetone		0.0069		0.0031	0.0041
Benzene		0.00082	U	0.00021	0.00082
Bromoform		0.00082	U	0.00035	0.00082
Bromomethane		0.00082	U	0.00039	0.00082
Carbon disulfide		0.00082	U	0.00022	0.00082
Carbon tetrachloride		0.00082	U	0.00015	0.00082
Chlorobenzene		0.00082	U	0.00015	0.00082
Chlorobromomethane		0.00082	U	0.00023	0.00082
Chlorodibromomethane		0.00082	U	0.00016	0.00082
Chloroethane		0.00082	U	0.00043	0.00082
Chloroform		0.00082	U	0.00026	0.00082
Chloromethane		0.00082	U	0.00036	0.00082
cis-1,2-Dichloroethene		0.00082	U	0.00013	0.00082
cis-1,3-Dichloropropene		0.00082	U	0.00023	0.00082
Cyclohexane		0.00082	U	0.00018	0.00082
Dichlorobromomethane		0.00082	U	0.00021	0.00082
Dichlorodifluoromethane		0.00082	U	0.00028	0.00082
Ethylbenzene		0.00082	U	0.00016	0.00082
Ethylene Dibromide		0.00082	U	0.00015	0.00082
Isopropylbenzene		0.00082	U	0.00010	0.00082
Methyl acetate		0.0041	U *	0.0035	0.0041
Methyl tert-butyl ether		0.00082	U	0.00010	0.00082
Methylcyclohexane		0.00082	U	0.00013	0.00082
Methylene Chloride		0.0011	B	0.00013	0.00082
m-Xylene & p-Xylene		0.00069	J	0.00014	0.00082
o-Xylene		0.00029	J	0.000078	0.00082
Styrene		0.00082	U	0.00010	0.00082
Tetrachloroethene		0.00082	U	0.00012	0.00082



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-004 (2'-4')

Lab Sample ID: 460-156390-4

Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 05/17/2018 1235

Date Received: 05/17/2018 1940

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30458.D

Dilution: 1.0

Initial Weight/Volume: 6.419 g

Analysis Date: 05/20/2018 0945

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1004

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.00082	U	0.00052	0.00082
trans-1,2-Dichloroethene		0.00082	U	0.00020	0.00082
trans-1,3-Dichloropropene		0.00082	U	0.00022	0.00082
Trichloroethene		0.00082	U	0.00012	0.00082
Trichlorofluoromethane		0.00082	U	0.00033	0.00082
Vinyl chloride		0.00082	U	0.00045	0.00082
Surrogate		%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		90		78 - 135	
4-Bromofluorobenzene		117		67 - 126	
Dibromofluoromethane (Surr)		101		61 - 149	
Toluene-d8 (Surr)		99		73 - 121	



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-004 (20'-22')

Lab Sample ID: 460-156390-5

Date Sampled: 05/17/2018 1245

Client Matrix: Solid

% Moisture: 6.4

Date Received: 05/17/2018 1940

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30459.D

Dilution: 1.0

Initial Weight/Volume: 5.399 g

Analysis Date: 05/20/2018 1008

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1005

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.00099	U	0.00023	0.00099
1,1,2,2-Tetrachloroethane		0.00099	U	0.00021	0.00099
1,1,2-Trichloro-1,2,2-trifluoroethane		0.00099	U	0.00030	0.00099
1,1,2-Trichloroethane		0.00099	U	0.00018	0.00099
1,1-Dichloroethane		0.00099	U	0.00020	0.00099
1,1-Dichloroethene		0.00099	U	0.00022	0.00099
1,2,3-Trichlorobenzene		0.00099	U	0.00018	0.00099
1,2,4-Trichlorobenzene		0.00099	U	0.000091	0.00099
1,2-Dibromo-3-Chloropropane		0.00099	U	0.00046	0.00099
1,2-Dichlorobenzene		0.00099	U	0.00014	0.00099
1,2-Dichloroethane		0.00099	U	0.00029	0.00099
1,2-Dichloropropane		0.00099	U	0.00042	0.00099
1,3-Dichlorobenzene		0.00099	U	0.00016	0.00099
1,4-Dichlorobenzene		0.00099	U	0.000099	0.00099
1,4-Dioxane		0.020	U	0.0091	0.020
2-Butanone (MEK)		0.0049	U	0.0011	0.0049
2-Hexanone		0.0049	U *	0.00077	0.0049
4-Methyl-2-pentanone (MIBK)		0.0049	U	0.00066	0.0049
Acetone		0.017		0.0038	0.0049
Benzene		0.00099	U	0.00026	0.00099
Bromoform		0.00099	U	0.00042	0.00099
Bromomethane		0.00099	U	0.00047	0.00099
Carbon disulfide		0.00099	U	0.00026	0.00099
Carbon tetrachloride		0.00099	U	0.00018	0.00099
Chlorobenzene		0.00099	U	0.00018	0.00099
Chlorobromomethane		0.00099	U	0.00028	0.00099
Chlorodibromomethane		0.00099	U	0.00019	0.00099
Chloroethane		0.00099	U	0.00052	0.00099
Chloroform		0.00099	U	0.00032	0.00099
Chloromethane		0.00099	U	0.00043	0.00099
cis-1,2-Dichloroethene		0.00099	U	0.00015	0.00099
cis-1,3-Dichloropropene		0.00099	U	0.00027	0.00099
Cyclohexane		0.00099	U	0.00022	0.00099
Dichlorobromomethane		0.00099	U	0.00025	0.00099
Dichlorodifluoromethane		0.00099	U	0.00033	0.00099
Ethylbenzene		0.00099	U	0.00020	0.00099
Ethylene Dibromide		0.00099	U	0.00018	0.00099
Isopropylbenzene		0.00099	U	0.00012	0.00099
Methyl acetate		0.0049	U *	0.0043	0.0049
Methyl tert-butyl ether		0.00099	U	0.00012	0.00099
Methylcyclohexane		0.00099	U	0.00016	0.00099
Methylene Chloride		0.0015	B	0.00016	0.00099
m-Xylene & p-Xylene		0.00081	J	0.00017	0.00099
o-Xylene		0.00030	J	0.000094	0.00099
Styrene		0.00099	U	0.00012	0.00099
Tetrachloroethene		0.00099	U	0.00014	0.00099



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-004 (20'-22')

Lab Sample ID: 460-156390-5

Date Sampled: 05/17/2018 1245

Client Matrix: Solid

% Moisture: 6.4

Date Received: 05/17/2018 1940

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30459.D

Dilution: 1.0

Initial Weight/Volume: 5.399 g

Analysis Date: 05/20/2018 1008

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1005

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.00099	U	0.00062	0.00099
trans-1,2-Dichloroethene		0.00099	U	0.00024	0.00099
trans-1,3-Dichloropropene		0.00099	U	0.00026	0.00099
Trichloroethene		0.00099	U	0.00014	0.00099
Trichlorofluoromethane		0.00099	U	0.00040	0.00099
Vinyl chloride		0.00099	U	0.00054	0.00099

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		78 - 135
4-Bromofluorobenzene	115		67 - 126
Dibromofluoromethane (Surr)	106		61 - 149
Toluene-d8 (Surr)	96		73 - 121



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-005 (2'-4')

Lab Sample ID: 460-156390-6

Date Sampled: 05/17/2018 1435

Client Matrix: Solid

% Moisture: 1.3

Date Received: 05/17/2018 1940

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30460.D

Dilution: 1.0

Initial Weight/Volume: 6.121 g

Analysis Date: 05/20/2018 1032

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1006

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.00083	U	0.00019	0.00083
1,1,2,2-Tetrachloroethane		0.00083	U	0.00018	0.00083
1,1,2-Trichloro-1,2,2-trifluoroethane		0.00083	U	0.00025	0.00083
1,1,2-Trichloroethane		0.00083	U	0.00015	0.00083
1,1-Dichloroethane		0.00083	U	0.00017	0.00083
1,1-Dichloroethene		0.00083	U	0.00019	0.00083
1,2,3-Trichlorobenzene		0.00083	U	0.00015	0.00083
1,2,4-Trichlorobenzene		0.00083	U	0.000076	0.00083
1,2-Dibromo-3-Chloropropane		0.00083	U	0.00038	0.00083
1,2-Dichlorobenzene		0.00083	U	0.00012	0.00083
1,2-Dichloroethane		0.00083	U	0.00025	0.00083
1,2-Dichloropropane		0.00083	U	0.00035	0.00083
1,3-Dichlorobenzene		0.00083	U	0.00013	0.00083
1,4-Dichlorobenzene		0.00083	U	0.000083	0.00083
1,4-Dioxane		0.017	U	0.0076	0.017
2-Butanone (MEK)		0.0089		0.00092	0.0041
2-Hexanone		0.0041	U *	0.00065	0.0041
4-Methyl-2-pentanone (MIBK)		0.0041	U	0.00055	0.0041
Acetone		0.059		0.0031	0.0041
Benzene		0.00083	U	0.00021	0.00083
Bromoform		0.00083	U	0.00035	0.00083
Bromomethane		0.00083	U	0.00039	0.00083
Carbon disulfide		0.00083	U	0.00022	0.00083
Carbon tetrachloride		0.00083	U	0.00015	0.00083
Chlorobenzene		0.00083	U	0.00015	0.00083
Chlorobromomethane		0.00083	U	0.00023	0.00083
Chlorodibromomethane		0.00083	U	0.00016	0.00083
Chloroethane		0.00083	U	0.00043	0.00083
Chloroform		0.00083	U	0.00026	0.00083
Chloromethane		0.00083	U	0.00036	0.00083
cis-1,2-Dichloroethene		0.00083	U	0.00013	0.00083
cis-1,3-Dichloropropene		0.00083	U	0.00023	0.00083
Cyclohexane		0.00083	U	0.00018	0.00083
Dichlorobromomethane		0.00083	U	0.00021	0.00083
Dichlorodifluoromethane		0.00083	U	0.00028	0.00083
Ethylbenzene		0.00020	J	0.00016	0.00083
Ethylene Dibromide		0.00083	U	0.00015	0.00083
Isopropylbenzene		0.00083	U	0.00010	0.00083
Methyl acetate		0.0041	U *	0.0036	0.0041
Methyl tert-butyl ether		0.00083	U	0.00010	0.00083
Methylcyclohexane		0.00083	U	0.00013	0.00083
Methylene Chloride		0.0017	B	0.00013	0.00083
m-Xylene & p-Xylene		0.00065	J	0.00014	0.00083
o-Xylene		0.00023	J	0.000079	0.00083
Styrene		0.00083	U	0.00010	0.00083
Tetrachloroethene		0.00083	U	0.00012	0.00083



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-005 (2'-4')

Lab Sample ID: 460-156390-6

Client Matrix: Solid

% Moisture: 1.3

Date Sampled: 05/17/2018 1435

Date Received: 05/17/2018 1940

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30460.D

Dilution: 1.0

Initial Weight/Volume: 6.121 g

Analysis Date: 05/20/2018 1032

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1006

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.00083	U	0.00052	0.00083
trans-1,2-Dichloroethene		0.00083	U	0.00020	0.00083
trans-1,3-Dichloropropene		0.00083	U	0.00022	0.00083
Trichloroethene		0.00083	U	0.00012	0.00083
Trichlorofluoromethane		0.00083	U	0.00034	0.00083
Vinyl chloride		0.00083	U	0.00045	0.00083

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		78 - 135
4-Bromofluorobenzene	116		67 - 126
Dibromofluoromethane (Surr)	106		61 - 149
Toluene-d8 (Surr)	101		73 - 121



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: DUP-001**

Lab Sample ID: 460-156390-7

Date Sampled: 05/17/2018 0000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/17/2018 1940

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30461.D

Dilution: 1.0

Initial Weight/Volume: 5.554 g

Analysis Date: 05/20/2018 1055

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1007

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.00099	U	0.00023	0.00099
1,1,2,2-Tetrachloroethane		0.00099	U	0.00021	0.00099
1,1,2-Trichloro-1,2,2-trifluoroethane		0.00099	U	0.00030	0.00099
1,1,2-Trichloroethane		0.00099	U	0.00018	0.00099
1,1-Dichloroethane		0.00099	U	0.00020	0.00099
1,1-Dichloroethene		0.00099	U	0.00022	0.00099
1,2,3-Trichlorobenzene		0.00099	U	0.00018	0.00099
1,2,4-Trichlorobenzene		0.00099	U	0.000091	0.00099
1,2-Dibromo-3-Chloropropane		0.00099	U	0.00046	0.00099
1,2-Dichlorobenzene		0.00099	U	0.00014	0.00099
1,2-Dichloroethane		0.00099	U	0.00029	0.00099
1,2-Dichloropropane		0.00099	U	0.00042	0.00099
1,3-Dichlorobenzene		0.00099	U	0.00016	0.00099
1,4-Dichlorobenzene		0.00099	U	0.000099	0.00099
1,4-Dioxane		0.020	U	0.0091	0.020
2-Butanone (MEK)		0.0039	J	0.0011	0.0050
2-Hexanone		0.0050	U *	0.00078	0.0050
4-Methyl-2-pentanone (MIBK)		0.0050	U	0.00066	0.0050
Acetone		0.024		0.0038	0.0050
Benzene		0.00099	U	0.00026	0.00099
Bromoform		0.00099	U	0.00042	0.00099
Bromomethane		0.00099	U	0.00047	0.00099
Carbon disulfide		0.00099	U	0.00026	0.00099
Carbon tetrachloride		0.00099	U	0.00018	0.00099
Chlorobenzene		0.00099	U	0.00018	0.00099
Chlorobromomethane		0.00099	U	0.00028	0.00099
Chlorodibromomethane		0.00099	U	0.00019	0.00099
Chloroethane		0.00099	U	0.00052	0.00099
Chloroform		0.00099	U	0.00032	0.00099
Chloromethane		0.00099	U	0.00043	0.00099
cis-1,2-Dichloroethene		0.00099	U	0.00015	0.00099
cis-1,3-Dichloropropene		0.00099	U	0.00027	0.00099
Cyclohexane		0.00099	U	0.00022	0.00099
Dichlorobromomethane		0.00099	U	0.00026	0.00099
Dichlorodifluoromethane		0.00099	U	0.00034	0.00099
Ethylbenzene		0.00023	J	0.00020	0.00099
Ethylene Dibromide		0.00099	U	0.00018	0.00099
Isopropylbenzene		0.00099	U	0.00013	0.00099
Methyl acetate		0.0050	U *	0.0043	0.0050
Methyl tert-butyl ether		0.00099	U	0.00012	0.00099
Methylcyclohexane		0.00099	U	0.00016	0.00099
Methylene Chloride		0.0012	B	0.00016	0.00099
m-Xylene & p-Xylene		0.0012		0.00017	0.00099
o-Xylene		0.00043	J	0.000094	0.00099
Styrene		0.00099	U	0.00012	0.00099
Tetrachloroethene		0.00099	U	0.00014	0.00099



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: DUP-001

Lab Sample ID: 460-156390-7

Client Matrix: Solid

% Moisture: 9.4

Date Sampled: 05/17/2018 0000

Date Received: 05/17/2018 1940

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-520812

Instrument ID: CVOAMS2

Prep Method: 5035

Prep Batch: 460-520315

Lab File ID: B30461.D

Dilution: 1.0

Initial Weight/Volume: 5.554 g

Analysis Date: 05/20/2018 1055

Final Weight/Volume: 5 mL

Prep Date: 05/18/2018 1007

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.00099	U	0.00062	0.00099
trans-1,2-Dichloroethene		0.00099	U	0.00024	0.00099
trans-1,3-Dichloropropene		0.00099	U	0.00026	0.00099
Trichloroethene		0.00099	U	0.00014	0.00099
Trichlorofluoromethane		0.00099	U	0.00040	0.00099
Vinyl chloride		0.00099	U	0.00054	0.00099

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		78 - 135
4-Bromofluorobenzene	118		67 - 126
Dibromofluoromethane (Surr)	101		61 - 149
Toluene-d8 (Surr)	99		73 - 121



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: EB-001**

Lab Sample ID: 460-156390-8

Date Sampled: 05/17/2018 1030

Client Matrix: Water

Date Received: 05/17/2018 1940

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-522684

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45775.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/26/2018 0451

Final Weight/Volume: 5 mL

Prep Date: 05/26/2018 0451

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	19		2.2	5.0
2-Hexanone	2.9	J	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	27	B	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	0.83	J	0.21	1.0
m-Xylene & p-Xylene	0.86	J	0.28	1.0
o-Xylene	0.33	J	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: EB-001

Lab Sample ID: 460-156390-8

Client Matrix: Water

Date Sampled: 05/17/2018 1030

Date Received: 05/17/2018 1940

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	460-522684	Instrument ID:	CVOAMS13
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P45775.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/26/2018 0451			Final Weight/Volume:	5 mL
Prep Date:	05/26/2018 0451				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		74 - 132
4-Bromofluorobenzene	96		77 - 124
Dibromofluoromethane (Surr)	92		72 - 131
Toluene-d8 (Surr)	100		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: Trip Blank**

Lab Sample ID: 460-156390-9TB

Date Sampled: 05/17/2018 1435

Client Matrix: Water

Date Received: 05/17/2018 1940

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-522684

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45776.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/26/2018 0517

Final Weight/Volume: 5 mL

Prep Date: 05/26/2018 0517

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	2.0	J B	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-156390-9TB

Client Matrix: Water

Date Sampled: 05/17/2018 1435

Date Received: 05/17/2018 1940

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	460-522684	Instrument ID:	CVOAMS13
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P45776.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/26/2018 0517			Final Weight/Volume:	5 mL
Prep Date:	05/26/2018 0517				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		74 - 132
4-Bromofluorobenzene	105		77 - 124
Dibromofluoromethane (Surr)	98		72 - 131
Toluene-d8 (Surr)	111		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-001 (11'-13')**

Lab Sample ID: 460-156390-1

Date Sampled: 05/17/2018 0925

Client Matrix: Solid

% Moisture: 2.3

Date Received: 05/17/2018 1940

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-520783

Instrument ID: CBNAMS5

Prep Method: 3546

Prep Batch: 460-520592

Lab File ID: X268992.d

Dilution: 1.0

Initial Weight/Volume: 15.0160 g

Analysis Date: 05/20/2018 0909

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0659

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.34	U	0.0045	0.34
1,2,4,5-Tetrachlorobenzene		0.34	U	0.0044	0.34
2,2'-oxybis[1-chloropropane]		0.34	U	0.0061	0.34
2,3,4,6-Tetrachlorophenol		0.34	U	0.023	0.34
2,4,5-Trichlorophenol		0.34	U	0.011	0.34
2,4,6-Trichlorophenol		0.14	U	0.017	0.14
2,4-Dichlorophenol		0.14	U	0.0071	0.14
2,4-Dimethylphenol		0.34	U	0.015	0.34
2,4-Dinitrophenol		0.27	U	0.17	0.27
2,4-Dinitrotoluene		0.068	U	0.017	0.068
2,6-Dinitrotoluene		0.068	U	0.011	0.068
2-Chloronaphthalene		0.34	U	0.016	0.34
2-Chlorophenol		0.34	U	0.0047	0.34
2-Methylnaphthalene		0.34	U	0.0042	0.34
2-Methylphenol		0.34	U	0.0055	0.34
2-Nitroaniline		0.34	U	0.013	0.34
2-Nitrophenol		0.34	U	0.011	0.34
3,3'-Dichlorobenzidine		0.14	U	0.051	0.14
3-Nitroaniline		0.34	U	0.018	0.34
4,6-Dinitro-2-methylphenol		0.27	U	0.055	0.27
4-Bromophenyl phenyl ether		0.34	U	0.0044	0.34
4-Chloro-3-methylphenol		0.34	U	0.0056	0.34
4-Chloroaniline		0.34	U	0.024	0.34
4-Chlorophenyl phenyl ether		0.34	U	0.0053	0.34
4-Methylphenol		0.34	U	0.0058	0.34
4-Nitroaniline		0.34	U	0.013	0.34
4-Nitrophenol		0.68	U	0.055	0.68
Acenaphthene		0.34	U	0.025	0.34
Acenaphthylene		0.34	U	0.0035	0.34
Acetophenone		0.34	U	0.0055	0.34
Anthracene		0.34	U	0.0038	0.34
Atrazine		0.14	U	0.0085	0.14
Benzaldehyde		0.34	U	0.015	0.34
Benzo[a]anthracene		0.034	U	0.012	0.034
Benzo[a]pyrene		0.034	U	0.0090	0.034
Benzo[b]fluoranthene		0.034	U	0.0087	0.034
Benzo[g,h,i]perylene		0.34	U	0.010	0.34
Benzo[k]fluoranthene		0.034	U	0.0066	0.034
Bis(2-chloroethoxy)methane		0.34	U	0.012	0.34
Bis(2-chloroethyl)ether		0.034	U	0.0041	0.034
Bis(2-ethylhexyl) phthalate		0.34	U	0.018	0.34
Butyl benzyl phthalate		0.34	U	0.016	0.34
Caprolactam		0.34	U	0.020	0.34
Carbazole		0.34	U	0.0040	0.34
Chrysene		0.34	U	0.0057	0.34
Dibenz(a,h)anthracene		0.034	U	0.015	0.034



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-001 (11'-13')**

Lab Sample ID: 460-156390-1

Date Sampled: 05/17/2018 0925

Client Matrix: Solid

% Moisture: 2.3

Date Received: 05/17/2018 1940

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-520783

Instrument ID: CBNAMS5

Prep Method: 3546

Prep Batch: 460-520592

Lab File ID: X268992.d

Dilution: 1.0

Initial Weight/Volume: 15.0160 g

Analysis Date: 05/20/2018 0909

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0659

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.34	U	0.0047	0.34
Diethyl phthalate		0.34	U	0.0049	0.34
Dimethyl phthalate		0.34	U	0.0041	0.34
Di-n-butyl phthalate		0.34	U	0.060	0.34
Di-n-octyl phthalate		0.34	U	0.018	0.34
Fluoranthene		0.34	U	0.0044	0.34
Fluorene		0.34	U	0.0046	0.34
Hexachlorobenzene		0.034	U	0.0050	0.034
Hexachlorobutadiene		0.068	U	0.0072	0.068
Hexachlorocyclopentadiene		0.34	U	0.030	0.34
Hexachloroethane		0.034	U	0.0052	0.034
Indeno[1,2,3-cd]pyrene		0.034	U	0.013	0.034
Isophorone		0.14	U	0.0089	0.14
Naphthalene		0.34	U	0.0058	0.34
Nitrobenzene		0.034	U	0.0081	0.034
N-Nitrosodi-n-propylamine		0.034	U	0.0054	0.034
N-Nitrosodiphenylamine		0.34	U	0.0065	0.34
Pentachlorophenol		0.27	U	0.069	0.27
Phenanthrene		0.34	U	0.0059	0.34
Phenol		0.34	U	0.0050	0.34
Pyrene		0.34	U	0.0084	0.34

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	49		10 - 103
2-Fluorobiphenyl	61		38 - 95
2-Fluorophenol (Surr)	52		25 - 92
Nitrobenzene-d5 (Surr)	58		37 - 94
Phenol-d5 (Surr)	52		32 - 91
Terphenyl-d14 (Surr)	84		24 - 109



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-002 (6'-8')**

Lab Sample ID: 460-156390-2

Date Sampled: 05/17/2018 1015

Client Matrix: Solid

% Moisture: 12.4

Date Received: 05/17/2018 1940

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-520783

Instrument ID: CBNAMS5

Prep Method: 3546

Prep Batch: 460-520592

Lab File ID: X268993.d

Dilution: 1.0

Initial Weight/Volume: 15.0177 g

Analysis Date: 05/20/2018 0933

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0659

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.38	U	0.0050	0.38
1,2,4,5-Tetrachlorobenzene		0.38	U	0.0049	0.38
2,2'-oxybis[1-chloropropane]		0.38	U	0.0068	0.38
2,3,4,6-Tetrachlorophenol		0.38	U	0.026	0.38
2,4,5-Trichlorophenol		0.38	U	0.012	0.38
2,4,6-Trichlorophenol		0.15	U	0.019	0.15
2,4-Dichlorophenol		0.15	U	0.0080	0.15
2,4-Dimethylphenol		0.38	U	0.017	0.38
2,4-Dinitrophenol		0.30	U	0.19	0.30
2,4-Dinitrotoluene		0.076	U	0.019	0.076
2,6-Dinitrotoluene		0.076	U	0.012	0.076
2-Chloronaphthalene		0.38	U	0.017	0.38
2-Chlorophenol		0.38	U	0.0053	0.38
2-Methylnaphthalene		0.38	U	0.0047	0.38
2-Methylphenol		0.38	U	0.0061	0.38
2-Nitroaniline		0.38	U	0.014	0.38
2-Nitrophenol		0.38	U	0.012	0.38
3,3'-Dichlorobenzidine		0.15	U	0.057	0.15
3-Nitroaniline		0.38	U	0.020	0.38
4,6-Dinitro-2-methylphenol		0.30	U	0.061	0.30
4-Bromophenyl phenyl ether		0.38	U	0.0049	0.38
4-Chloro-3-methylphenol		0.38	U	0.0063	0.38
4-Chloroaniline		0.38	U	0.026	0.38
4-Chlorophenyl phenyl ether		0.38	U	0.0059	0.38
4-Methylphenol		0.38	U	0.0064	0.38
4-Nitroaniline		0.38	U	0.014	0.38
4-Nitrophenol		0.76	U	0.061	0.76
Acenaphthene		0.38	U	0.027	0.38
Acenaphthylene		0.38	U	0.0039	0.38
Acetophenone		0.38	U	0.0061	0.38
Anthracene		0.38	U	0.0042	0.38
Atrazine		0.15	U	0.0095	0.15
Benzaldehyde		0.38	U	0.016	0.38
Benzo[a]anthracene		0.038	U	0.013	0.038
Benzo[a]pyrene		0.038	U	0.010	0.038
Benzo[b]fluoranthene		0.038	U	0.0098	0.038
Benzo[g,h,i]perylene		0.38	U	0.011	0.38
Benzo[k]fluoranthene		0.038	U	0.0074	0.038
Bis(2-chloroethoxy)methane		0.38	U	0.013	0.38
Bis(2-chloroethyl)ether		0.038	U	0.0046	0.038
Bis(2-ethylhexyl) phthalate		0.38	U	0.020	0.38
Butyl benzyl phthalate		0.38	U	0.018	0.38
Caprolactam		0.38	U	0.023	0.38
Carbazole		0.38	U	0.0044	0.38
Chrysene		0.38	U	0.0064	0.38
Dibenz(a,h)anthracene		0.038	U	0.016	0.038



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-002 (6'-8')

Lab Sample ID: 460-156390-2

Date Sampled: 05/17/2018 1015

Client Matrix: Solid

% Moisture: 12.4

Date Received: 05/17/2018 1940

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-520783

Instrument ID: CBNAMS5

Prep Method: 3546

Prep Batch: 460-520592

Lab File ID: X268993.d

Dilution: 1.0

Initial Weight/Volume: 15.0177 g

Analysis Date: 05/20/2018 0933

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0659

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.38	U	0.0053	0.38
Diethyl phthalate		0.38	U	0.0055	0.38
Dimethyl phthalate		0.38	U	0.0046	0.38
Di-n-butyl phthalate		0.38	U	0.067	0.38
Di-n-octyl phthalate		0.38	U	0.020	0.38
Fluoranthene		0.38	U	0.0049	0.38
Fluorene		0.38	U	0.0051	0.38
Hexachlorobenzene		0.038	U	0.0055	0.038
Hexachlorobutadiene		0.076	U	0.0080	0.076
Hexachlorocyclopentadiene		0.38	U	0.033	0.38
Hexachloroethane		0.038	U	0.0058	0.038
Indeno[1,2,3-cd]pyrene		0.038	U	0.015	0.038
Isophorone		0.15	U	0.0099	0.15
Naphthalene		0.38	U	0.0065	0.38
Nitrobenzene		0.038	U	0.0091	0.038
N-Nitrosodi-n-propylamine		0.038	U	0.0060	0.038
N-Nitrosodiphenylamine		0.38	U	0.0072	0.38
Pentachlorophenol		0.30	U	0.077	0.30
Phenanthrene		0.38	U	0.0066	0.38
Phenol		0.38	U	0.0056	0.38
Pyrene		0.38	U	0.0094	0.38

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	45		10 - 103
2-Fluorobiphenyl	74		38 - 95
2-Fluorophenol (Surr)	63		25 - 92
Nitrobenzene-d5 (Surr)	69		37 - 94
Phenol-d5 (Surr)	61		32 - 91
Terphenyl-d14 (Surr)	90		24 - 109



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-003 (8'-10')**

Lab Sample ID: 460-156390-3

Date Sampled: 05/17/2018 1135

Client Matrix: Solid

% Moisture: 8.7

Date Received: 05/17/2018 1940

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-520783

Instrument ID: CBNAMS5

Prep Method: 3546

Prep Batch: 460-520592

Lab File ID: X268994.d

Dilution: 1.0

Initial Weight/Volume: 15.0165 g

Analysis Date: 05/20/2018 0957

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0659

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.36	U	0.0048	0.36
1,2,4,5-Tetrachlorobenzene		0.36	U	0.0047	0.36
2,2'-oxybis[1-chloropropane]		0.36	U	0.0065	0.36
2,3,4,6-Tetrachlorophenol		0.36	U	0.025	0.36
2,4,5-Trichlorophenol		0.36	U	0.012	0.36
2,4,6-Trichlorophenol		0.15	U	0.018	0.15
2,4-Dichlorophenol		0.15	U	0.0076	0.15
2,4-Dimethylphenol		0.36	U	0.016	0.36
2,4-Dinitrophenol		0.29	U	0.18	0.29
2,4-Dinitrotoluene		0.073	U	0.018	0.073
2,6-Dinitrotoluene		0.073	U	0.012	0.073
2-Chloronaphthalene		0.36	U	0.017	0.36
2-Chlorophenol		0.36	U	0.0051	0.36
2-Methylnaphthalene		0.36	U	0.0045	0.36
2-Methylphenol		0.36	U	0.0058	0.36
2-Nitroaniline		0.36	U	0.014	0.36
2-Nitrophenol		0.36	U	0.012	0.36
3,3'-Dichlorobenzidine		0.15	U	0.055	0.15
3-Nitroaniline		0.36	U	0.020	0.36
4,6-Dinitro-2-methylphenol		0.29	U	0.059	0.29
4-Bromophenyl phenyl ether		0.36	U	0.0047	0.36
4-Chloro-3-methylphenol		0.36	U	0.0060	0.36
4-Chloroaniline		0.36	U	0.025	0.36
4-Chlorophenyl phenyl ether		0.36	U	0.0057	0.36
4-Methylphenol		0.36	U	0.0062	0.36
4-Nitroaniline		0.36	U	0.013	0.36
4-Nitrophenol		0.73	U	0.059	0.73
Acenaphthene		0.36	U	0.026	0.36
Acenaphthylene		0.36	U	0.0037	0.36
Acetophenone		0.36	U	0.0058	0.36
Anthracene		0.36	U	0.0040	0.36
Atrazine		0.15	U	0.0091	0.15
Benzaldehyde		0.36	U	0.016	0.36
Benzo[a]anthracene		0.036	U	0.013	0.036
Benzo[a]pyrene		0.036	U	0.0096	0.036
Benzo[b]fluoranthene		0.036	U	0.0094	0.036
Benzo[g,h,i]perylene		0.36	U	0.011	0.36
Benzo[k]fluoranthene		0.036	U	0.0071	0.036
Bis(2-chloroethoxy)methane		0.36	U	0.012	0.36
Bis(2-chloroethyl)ether		0.036	U	0.0044	0.036
Bis(2-ethylhexyl) phthalate		0.36	U	0.019	0.36
Butyl benzyl phthalate		0.36	U	0.017	0.36
Caprolactam		0.36	U	0.022	0.36
Carbazole		0.36	U	0.0042	0.36
Chrysene		0.36	U	0.0061	0.36
Dibenz(a,h)anthracene		0.036	U	0.016	0.036



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-003 (8'-10')**

Lab Sample ID: 460-156390-3

Date Sampled: 05/17/2018 1135

Client Matrix: Solid

% Moisture: 8.7

Date Received: 05/17/2018 1940

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-520783

Instrument ID: CBNAMS5

Prep Method: 3546

Prep Batch: 460-520592

Lab File ID: X268994.d

Dilution: 1.0

Initial Weight/Volume: 15.0165 g

Analysis Date: 05/20/2018 0957

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0659

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.36	U	0.0051	0.36
Diethyl phthalate		0.36	U	0.0052	0.36
Dimethyl phthalate		0.36	U	0.0044	0.36
Di-n-butyl phthalate		0.36	U	0.064	0.36
Di-n-octyl phthalate		0.36	U	0.019	0.36
Fluoranthene		0.36	U	0.0047	0.36
Fluorene		0.36	U	0.0049	0.36
Hexachlorobenzene		0.036	U	0.0053	0.036
Hexachlorobutadiene		0.073	U	0.0077	0.073
Hexachlorocyclopentadiene		0.36	U	0.032	0.36
Hexachloroethane		0.036	U	0.0056	0.036
Indeno[1,2,3-cd]pyrene		0.036	U	0.014	0.036
Isophorone		0.15	U	0.0095	0.15
Naphthalene		0.36	U	0.0063	0.36
Nitrobenzene		0.036	U	0.0087	0.036
N-Nitrosodi-n-propylamine		0.036	U	0.0058	0.036
N-Nitrosodiphenylamine		0.36	U	0.0069	0.36
Pentachlorophenol		0.29	U	0.074	0.29
Phenanthrene		0.36	U	0.0064	0.36
Phenol		0.36	U	0.0054	0.36
Pyrene		0.36	U	0.0090	0.36

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	60		10 - 103
2-Fluorobiphenyl	79		38 - 95
2-Fluorophenol (Surr)	64		25 - 92
Nitrobenzene-d5 (Surr)	75		37 - 94
Phenol-d5 (Surr)	69		32 - 91
Terphenyl-d14 (Surr)	90		24 - 109



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-004 (2'-4')**

Lab Sample ID: 460-156390-4

Date Sampled: 05/17/2018 1235

Client Matrix: Solid

% Moisture: 5.5

Date Received: 05/17/2018 1940

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-520993

Instrument ID: CBNAMS5

Prep Method: 3546

Prep Batch: 460-520592

Lab File ID: X269059.d

Dilution: 1.0

Initial Weight/Volume: 15.0188 g

Analysis Date: 05/21/2018 1657

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0659

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.35	U	0.0046	0.35
1,2,4,5-Tetrachlorobenzene		0.35	U	0.0046	0.35
2,2'-oxybis[1-chloropropane]		0.35	U	0.0063	0.35
2,3,4,6-Tetrachlorophenol		0.35	U	0.024	0.35
2,4,5-Trichlorophenol		0.35	U	0.012	0.35
2,4,6-Trichlorophenol		0.14	U	0.018	0.14
2,4-Dichlorophenol		0.14	U	0.0074	0.14
2,4-Dimethylphenol		0.35	U	0.015	0.35
2,4-Dinitrophenol		0.28	U	0.17	0.28
2,4-Dinitrotoluene		0.071	U	0.018	0.071
2,6-Dinitrotoluene		0.071	U	0.011	0.071
2-Chloronaphthalene		0.35	U	0.016	0.35
2-Chlorophenol		0.35	U	0.0049	0.35
2-Methylnaphthalene		0.35	U	0.0044	0.35
2-Methylphenol		0.35	U	0.0056	0.35
2-Nitroaniline		0.35	U	0.013	0.35
2-Nitrophenol		0.35	U	0.011	0.35
3,3'-Dichlorobenzidine		0.14	U	0.053	0.14
3-Nitroaniline		0.35	U	0.019	0.35
4,6-Dinitro-2-methylphenol		0.28	U	0.057	0.28
4-Bromophenyl phenyl ether		0.35	U	0.0045	0.35
4-Chloro-3-methylphenol		0.35	U	0.0058	0.35
4-Chloroaniline		0.35	U	0.024	0.35
4-Chlorophenyl phenyl ether		0.35	U	0.0055	0.35
4-Methylphenol		0.35	U	0.0060	0.35
4-Nitroaniline		0.35	U	0.013	0.35
4-Nitrophenol		0.71	U	0.057	0.71
Acenaphthene		0.35	U	0.025	0.35
Acenaphthylene		0.35	U	0.0036	0.35
Acetophenone		0.35	U	0.0056	0.35
Anthracene		0.35	U	0.0039	0.35
Atrazine		0.14	U	0.0088	0.14
Benzaldehyde		0.35	U	0.015	0.35
Benzo[a]anthracene		0.035	U	0.012	0.035
Benzo[a]pyrene		0.035	U	0.0093	0.035
Benzo[b]fluoranthene		0.035	U	0.0090	0.035
Benzo[g,h,i]perylene		0.35	U	0.010	0.35
Benzo[k]fluoranthene		0.035	U	0.0069	0.035
Bis(2-chloroethoxy)methane		0.35	U	0.012	0.35
Bis(2-chloroethyl)ether		0.035	U	0.0042	0.035
Bis(2-ethylhexyl) phthalate		0.35	U	0.018	0.35
Butyl benzyl phthalate		0.35	U	0.016	0.35
Caprolactam		0.35	U	0.021	0.35
Carbazole		0.35	U	0.0041	0.35
Chrysene		0.35	U	0.0059	0.35
Dibenz(a,h)anthracene		0.035	U	0.015	0.035



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-004 (2'-4')

Lab Sample ID: 460-156390-4

Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 05/17/2018 1235

Date Received: 05/17/2018 1940

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-520993

Instrument ID: CBNAMS5

Prep Method: 3546

Prep Batch: 460-520592

Lab File ID: X269059.d

Dilution: 1.0

Initial Weight/Volume: 15.0188 g

Analysis Date: 05/21/2018 1657

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0659

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.35	U	0.0049	0.35
Diethyl phthalate		0.35	U	0.0051	0.35
Dimethyl phthalate		0.35	U	0.0042	0.35
Di-n-butyl phthalate		0.35	U	0.062	0.35
Di-n-octyl phthalate		0.35	U	0.019	0.35
Fluoranthene		0.35	U	0.0045	0.35
Fluorene		0.35	U	0.0047	0.35
Hexachlorobenzene		0.035	U	0.0051	0.035
Hexachlorobutadiene		0.071	U	0.0074	0.071
Hexachlorocyclopentadiene		0.35	U	0.031	0.35
Hexachloroethane		0.035	U	0.0054	0.035
Indeno[1,2,3-cd]pyrene		0.035	U	0.014	0.035
Isophorone		0.14	U	0.0092	0.14
Naphthalene		0.35	U	0.0060	0.35
Nitrobenzene		0.035	U	0.0084	0.035
N-Nitrosodi-n-propylamine		0.035	U	0.0056	0.035
N-Nitrosodiphenylamine		0.35	U	0.0067	0.35
Pentachlorophenol		0.28	U	0.072	0.28
Phenanthrene		0.35	U	0.0061	0.35
Phenol		0.35	U	0.0052	0.35
Pyrene		0.35	U	0.0087	0.35

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	50		10 - 103
2-Fluorobiphenyl	61		38 - 95
2-Fluorophenol (Surr)	54		25 - 92
Nitrobenzene-d5 (Surr)	56		37 - 94
Phenol-d5 (Surr)	55		32 - 91
Terphenyl-d14 (Surr)	75		24 - 109



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-004 (20'-22')

Lab Sample ID: 460-156390-5

Date Sampled: 05/17/2018 1245

Client Matrix: Solid

% Moisture: 6.4

Date Received: 05/17/2018 1940

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D	Analysis Batch: 460-520791	Instrument ID: CBNAMS12
Prep Method: 3546	Prep Batch: 460-520594	Lab File ID: L2079031.d
Dilution: 1.0		Initial Weight/Volume: 15.0147 g
Analysis Date: 05/20/2018 0343		Final Weight/Volume: 1 mL
Prep Date: 05/19/2018 0713		Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.35	U	0.0047	0.35
1,2,4,5-Tetrachlorobenzene		0.35	U	0.0046	0.35
2,2'-oxybis[1-chloropropane]		0.35	U	0.0064	0.35
2,3,4,6-Tetrachlorophenol		0.35	U	0.024	0.35
2,4,5-Trichlorophenol		0.35	U	0.012	0.35
2,4,6-Trichlorophenol		0.14	U	0.018	0.14
2,4-Dichlorophenol		0.14	U	0.0075	0.14
2,4-Dimethylphenol		0.35	U	0.016	0.35
2,4-Dinitrophenol		0.28	U F1	0.17	0.28
2,4-Dinitrotoluene		0.072	U	0.018	0.072
2,6-Dinitrotoluene		0.072	U	0.011	0.072
2-Chloronaphthalene		0.35	U	0.016	0.35
2-Chlorophenol		0.35	U	0.0050	0.35
2-Methylnaphthalene		0.35	U	0.0044	0.35
2-Methylphenol		0.35	U	0.0057	0.35
2-Nitroaniline		0.35	U	0.013	0.35
2-Nitrophenol		0.35	U	0.011	0.35
3,3'-Dichlorobenzidine		0.14	U	0.053	0.14
3-Nitroaniline		0.35	U	0.019	0.35
4,6-Dinitro-2-methylphenol		0.28	U F1	0.057	0.28
4-Bromophenyl phenyl ether		0.35	U	0.0046	0.35
4-Chloro-3-methylphenol		0.35	U	0.0059	0.35
4-Chloroaniline		0.35	U	0.025	0.35
4-Chlorophenyl phenyl ether		0.35	U	0.0056	0.35
4-Methylphenol		0.35	U	0.0060	0.35
4-Nitroaniline		0.35	U	0.013	0.35
4-Nitrophenol		0.72	U	0.058	0.72
Acenaphthene		0.35	U F1	0.026	0.35
Acenaphthylene		0.35	U	0.0037	0.35
Acetophenone		0.35	U F1	0.0057	0.35
Anthracene		0.35	U	0.0039	0.35
Atrazine		0.14	U	0.0089	0.14
Benzaldehyde		0.35	U	0.015	0.35
Benzo[a]anthracene		0.035	U	0.012	0.035
Benzo[a]pyrene		0.035	U	0.0094	0.035
Benzo[b]fluoranthene		0.035	U	0.0091	0.035
Benzo[g,h,i]perylene		0.35	U	0.010	0.35
Benzo[k]fluoranthene		0.035	U	0.0069	0.035
Bis(2-chloroethoxy)methane		0.35	U	0.012	0.35
Bis(2-chloroethyl)ether		0.035	U F1	0.0043	0.035
Bis(2-ethylhexyl) phthalate		0.35	U	0.019	0.35
Butyl benzyl phthalate		0.35	U	0.017	0.35
Caprolactam		0.35	U	0.021	0.35
Carbazole		0.35	U	0.0041	0.35
Chrysene		0.35	U	0.0060	0.35
Dibenz(a,h)anthracene		0.035	U	0.015	0.035



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-004 (20'-22')**

Lab Sample ID: 460-156390-5

Date Sampled: 05/17/2018 1245

Client Matrix: Solid

% Moisture: 6.4

Date Received: 05/17/2018 1940

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-520791

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-520594

Lab File ID: L2079031.d

Dilution: 1.0

Initial Weight/Volume: 15.0147 g

Analysis Date: 05/20/2018 0343

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0713

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.35	U	0.0050	0.35
Diethyl phthalate		0.35	U	0.0051	0.35
Dimethyl phthalate		0.35	U	0.0043	0.35
Di-n-butyl phthalate		0.35	U	0.062	0.35
Di-n-octyl phthalate		0.35	U	0.019	0.35
Fluoranthene		0.35	U	0.0046	0.35
Fluorene		0.35	U	0.0048	0.35
Hexachlorobenzene		0.035	U	0.0052	0.035
Hexachlorobutadiene		0.072	U	0.0075	0.072
Hexachlorocyclopentadiene		0.35	U	0.031	0.35
Hexachloroethane		0.035	U F1	0.0054	0.035
Indeno[1,2,3-cd]pyrene		0.035	U	0.014	0.035
Isophorone		0.14	U F1	0.0093	0.14
Naphthalene		0.35	U F1	0.0061	0.35
Nitrobenzene		0.035	U F1	0.0085	0.035
N-Nitrosodi-n-propylamine		0.035	U	0.0056	0.035
N-Nitrosodiphenylamine		0.35	U	0.0068	0.35
Pentachlorophenol		0.28	U	0.072	0.28
Phenanthrene		0.35	U	0.0062	0.35
Phenol		0.35	U	0.0052	0.35
Pyrene		0.35	U	0.0088	0.35

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	85		10 - 103
2-Fluorobiphenyl	79		38 - 95
2-Fluorophenol (Surr)	74		25 - 92
Nitrobenzene-d5 (Surr)	78		37 - 94
Phenol-d5 (Surr)	73		32 - 91
Terphenyl-d14 (Surr)	84		24 - 109



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-005 (2'-4')**

Lab Sample ID: 460-156390-6

Date Sampled: 05/17/2018 1435

Client Matrix: Solid

% Moisture: 1.3

Date Received: 05/17/2018 1940

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-520791

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-520594

Lab File ID: L2079034.d

Dilution: 1.0

Initial Weight/Volume: 15.0159 g

Analysis Date: 05/20/2018 0451

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0713

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.33	U	0.0044	0.33
1,2,4,5-Tetrachlorobenzene		0.33	U	0.0044	0.33
2,2'-oxybis[1-chloropropane]		0.33	U	0.0061	0.33
2,3,4,6-Tetrachlorophenol		0.33	U	0.023	0.33
2,4,5-Trichlorophenol		0.33	U	0.011	0.33
2,4,6-Trichlorophenol		0.13	U	0.017	0.13
2,4-Dichlorophenol		0.13	U	0.0071	0.13
2,4-Dimethylphenol		0.33	U	0.015	0.33
2,4-Dinitrophenol		0.27	U	0.16	0.27
2,4-Dinitrotoluene		0.068	U	0.017	0.068
2,6-Dinitrotoluene		0.068	U	0.011	0.068
2-Chloronaphthalene		0.33	U	0.015	0.33
2-Chlorophenol		0.33	U	0.0047	0.33
2-Methylnaphthalene		0.33	U	0.0042	0.33
2-Methylphenol		0.33	U	0.0054	0.33
2-Nitroaniline		0.33	U	0.013	0.33
2-Nitrophenol		0.33	U	0.011	0.33
3,3'-Dichlorobenzidine		0.13	U	0.051	0.13
3-Nitroaniline		0.33	U	0.018	0.33
4,6-Dinitro-2-methylphenol		0.27	U	0.054	0.27
4-Bromophenyl phenyl ether		0.33	U	0.0043	0.33
4-Chloro-3-methylphenol		0.33	U	0.0056	0.33
4-Chloroaniline		0.33	U	0.023	0.33
4-Chlorophenyl phenyl ether		0.33	U	0.0053	0.33
4-Methylphenol		0.33	U	0.0057	0.33
4-Nitroaniline		0.33	U	0.012	0.33
4-Nitrophenol		0.68	U	0.055	0.68
Acenaphthene		0.33	U	0.024	0.33
Acenaphthylene		0.33	U	0.0035	0.33
Acetophenone		0.33	U	0.0054	0.33
Anthracene		0.33	U	0.0037	0.33
Atrazine		0.13	U	0.0084	0.13
Benzaldehyde		0.33	U	0.015	0.33
Benzo[a]anthracene		0.033	U	0.012	0.033
Benzo[a]pyrene		0.033	U	0.0089	0.033
Benzo[b]fluoranthene		0.033	U	0.0087	0.033
Benzo[g,h,i]perylene		0.33	U	0.0099	0.33
Benzo[k]fluoranthene		0.033	U	0.0066	0.033
Bis(2-chloroethoxy)methane		0.33	U	0.011	0.33
Bis(2-chloroethyl)ether		0.033	U	0.0040	0.033
Bis(2-ethylhexyl) phthalate		0.33	U	0.018	0.33
Butyl benzyl phthalate		0.33	U	0.016	0.33
Caprolactam		0.33	U	0.020	0.33
Carbazole		0.33	U	0.0039	0.33
Chrysene		0.33	U	0.0057	0.33
Dibenz(a,h)anthracene		0.033	U	0.014	0.033



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-005 (2'-4')

Lab Sample ID: 460-156390-6

Client Matrix: Solid

% Moisture: 1.3

Date Sampled: 05/17/2018 1435

Date Received: 05/17/2018 1940

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-520791

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-520594

Lab File ID: L2079034.d

Dilution: 1.0

Initial Weight/Volume: 15.0159 g

Analysis Date: 05/20/2018 0451

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0713

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.33	U	0.0047	0.33
Diethyl phthalate		0.33	U	0.0049	0.33
Dimethyl phthalate		0.33	U	0.0040	0.33
Di-n-butyl phthalate		0.33	U	0.059	0.33
Di-n-octyl phthalate		0.33	U	0.018	0.33
Fluoranthene		0.33	U	0.0044	0.33
Fluorene		0.33	U	0.0045	0.33
Hexachlorobenzene		0.033	U	0.0049	0.033
Hexachlorobutadiene		0.068	U	0.0071	0.068
Hexachlorocyclopentadiene		0.33	U	0.029	0.33
Hexachloroethane		0.033	U	0.0052	0.033
Indeno[1,2,3-cd]pyrene		0.033	U	0.013	0.033
Isophorone		0.13	U	0.0088	0.13
Naphthalene		0.33	U	0.0058	0.33
Nitrobenzene		0.033	U	0.0080	0.033
N-Nitrosodi-n-propylamine		0.033	U	0.0053	0.033
N-Nitrosodiphenylamine		0.33	U	0.0064	0.33
Pentachlorophenol		0.27	U	0.069	0.27
Phenanthrene		0.33	U	0.0059	0.33
Phenol		0.33	U	0.0050	0.33
Pyrene		0.33	U	0.0083	0.33

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	78		10 - 103
2-Fluorobiphenyl	73		38 - 95
2-Fluorophenol (Surr)	69		25 - 92
Nitrobenzene-d5 (Surr)	71		37 - 94
Phenol-d5 (Surr)	65		32 - 91
Terphenyl-d14 (Surr)	81		24 - 109



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: DUP-001**

Lab Sample ID: 460-156390-7

Date Sampled: 05/17/2018 0000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/17/2018 1940

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-520791

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-520594

Lab File ID: L2079035.d

Dilution: 1.0

Initial Weight/Volume: 15.0133 g

Analysis Date: 05/20/2018 0514

Final Weight/Volume: 1 mL

Prep Date: 05/19/2018 0713

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.36	U	0.0048	0.36
1,2,4,5-Tetrachlorobenzene		0.36	U	0.0048	0.36
2,2'-oxybis[1-chloropropane]		0.36	U	0.0066	0.36
2,3,4,6-Tetrachlorophenol		0.36	U	0.025	0.36
2,4,5-Trichlorophenol		0.36	U	0.012	0.36
2,4,6-Trichlorophenol		0.15	U	0.018	0.15
2,4-Dichlorophenol		0.15	U	0.0077	0.15
2,4-Dimethylphenol		0.36	U	0.016	0.36
2,4-Dinitrophenol		0.29	U	0.18	0.29
2,4-Dinitrotoluene		0.074	U	0.018	0.074
2,6-Dinitrotoluene		0.074	U	0.012	0.074
2-Chloronaphthalene		0.36	U	0.017	0.36
2-Chlorophenol		0.36	U	0.0051	0.36
2-Methylnaphthalene		0.36	U	0.0046	0.36
2-Methylphenol		0.36	U	0.0059	0.36
2-Nitroaniline		0.36	U	0.014	0.36
2-Nitrophenol		0.36	U	0.012	0.36
3,3'-Dichlorobenzidine		0.15	U	0.055	0.15
3-Nitroaniline		0.36	U	0.020	0.36
4,6-Dinitro-2-methylphenol		0.29	U	0.059	0.29
4-Bromophenyl phenyl ether		0.36	U	0.0047	0.36
4-Chloro-3-methylphenol		0.36	U	0.0061	0.36
4-Chloroaniline		0.36	U	0.026	0.36
4-Chlorophenyl phenyl ether		0.36	U	0.0058	0.36
4-Methylphenol		0.36	U	0.0062	0.36
4-Nitroaniline		0.36	U	0.014	0.36
4-Nitrophenol		0.74	U	0.059	0.74
Acenaphthene		0.36	U	0.027	0.36
Acenaphthylene		0.36	U	0.0038	0.36
Acetophenone		0.36	U	0.0059	0.36
Anthracene		0.36	U	0.0041	0.36
Atrazine		0.15	U	0.0092	0.15
Benzaldehyde		0.36	U	0.016	0.36
Benzo[a]anthracene		0.036	U	0.013	0.036
Benzo[a]pyrene		0.036	U	0.0097	0.036
Benzo[b]fluoranthene		0.036	U	0.0094	0.036
Benzo[g,h,i]perylene		0.36	U	0.011	0.36
Benzo[k]fluoranthene		0.036	U	0.0072	0.036
Bis(2-chloroethoxy)methane		0.36	U	0.013	0.36
Bis(2-chloroethyl)ether		0.036	U	0.0044	0.036
Bis(2-ethylhexyl) phthalate		0.36	U	0.019	0.36
Butyl benzyl phthalate		0.36	U	0.017	0.36
Caprolactam		0.36	U	0.022	0.36
Carbazole		0.36	U	0.0043	0.36
Chrysene		0.36	U	0.0062	0.36
Dibenz(a,h)anthracene		0.036	U	0.016	0.036



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: DUP-001**

Lab Sample ID: 460-156390-7

Date Sampled: 05/17/2018 0000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/17/2018 1940

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D	Analysis Batch: 460-520791	Instrument ID: CBNAMS12
Prep Method: 3546	Prep Batch: 460-520594	Lab File ID: L2079035.d
Dilution: 1.0		Initial Weight/Volume: 15.0133 g
Analysis Date: 05/20/2018 0514		Final Weight/Volume: 1 mL
Prep Date: 05/19/2018 0713		Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.36	U	0.0051	0.36
Diethyl phthalate		0.36	U	0.0053	0.36
Dimethyl phthalate		0.36	U	0.0044	0.36
Di-n-butyl phthalate		0.36	U	0.064	0.36
Di-n-octyl phthalate		0.36	U	0.019	0.36
Fluoranthene		0.36	U	0.0047	0.36
Fluorene		0.36	U	0.0050	0.36
Hexachlorobenzene		0.036	U	0.0053	0.036
Hexachlorobutadiene		0.074	U	0.0078	0.074
Hexachlorocyclopentadiene		0.36	U	0.032	0.36
Hexachloroethane		0.036	U	0.0056	0.036
Indeno[1,2,3-cd]pyrene		0.036	U	0.014	0.036
Isophorone		0.15	U	0.0096	0.15
Naphthalene		0.36	U	0.0063	0.36
Nitrobenzene		0.036	U	0.0088	0.036
N-Nitrosodi-n-propylamine		0.036	U	0.0058	0.036
N-Nitrosodiphenylamine		0.36	U	0.0070	0.36
Pentachlorophenol		0.29	U	0.075	0.29
Phenanthrene		0.36	U	0.0064	0.36
Phenol		0.36	U	0.0054	0.36
Pyrene		0.36	U	0.0091	0.36
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)		42		10 - 103	
2-Fluorobiphenyl		76		38 - 95	
2-Fluorophenol (Surr)		70		25 - 92	
Nitrobenzene-d5 (Surr)		74		37 - 94	
Phenol-d5 (Surr)		66		32 - 91	
Terphenyl-d14 (Surr)		87		24 - 109	



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: EB-001**

Lab Sample ID: 460-156390-8

Date Sampled: 05/17/2018 1030

Client Matrix: Water

Date Received: 05/17/2018 1940

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-520998

Instrument ID: CBNAMS16

Prep Method: 3510C

Prep Batch: 460-520597

Lab File ID: A153232.D

Dilution: 1.0

Initial Weight/Volume: 250 mL

Analysis Date: 05/21/2018 1645

Final Weight/Volume: 2 mL

Prep Date: 05/19/2018 0722

Injection Volume: 5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	10	U	1.2	10
1,2,4,5-Tetrachlorobenzene	10	U	1.2	10
2,2'-oxybis[1-chloropropane]	10	U	0.63	10
2,3,4,6-Tetrachlorophenol	10	U	0.75	10
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	10	U	0.30	10
2,4-Dichlorophenol	10	U	0.42	10
2,4-Dimethylphenol	10	U	0.24	10
2,4-Dinitrophenol	20	U	14	20
2,4-Dinitrotoluene	2.0	U	1.0	2.0
2,6-Dinitrotoluene	2.0	U	0.39	2.0
2-Chloronaphthalene	10	U	1.2	10
2-Chlorophenol	10	U	0.38	10
2-Methylnaphthalene	10	U	1.1	10
2-Methylphenol	10	U	0.26	10
2-Nitroaniline	10	U	0.47	10
2-Nitrophenol	10	U	0.75	10
3,3'-Dichlorobenzidine	10	U	1.4	10
3-Nitroaniline	10	U	0.96	10
4,6-Dinitro-2-methylphenol	20	U	13	20
4-Bromophenyl phenyl ether	10	U	0.75	10
4-Chloro-3-methylphenol	10	U	0.58	10
4-Chloroaniline	10	U	1.9	10
4-Chlorophenyl phenyl ether	10	U	1.3	10
4-Methylphenol	10	U	0.24	10
4-Nitroaniline	10	U	0.54	10
4-Nitrophenol	20	U	0.69	20
Acenaphthene	10	U	1.1	10
Acenaphthylene	10	U	0.82	10
Acetophenone	3.4	J	0.79	10
Anthracene	10	U	0.63	10
Atrazine	2.0	U	1.3	2.0
Benzaldehyde	10	U	0.59	10
Benzo[a]anthracene	1.0	U	0.59	1.0
Benzo[a]pyrene	1.0	U	0.41	1.0
Benzo[b]fluoranthene	2.0	U	1.1	2.0
Benzo[g,h,i]perylene	10	U	1.4	10
Benzo[k]fluoranthene	1.0	U	0.67	1.0
Bis(2-chloroethoxy)methane	10	U	0.24	10
Bis(2-chloroethyl)ether	1.0	U	0.30	1.0
Bis(2-ethylhexyl) phthalate	2.0	U	1.7	2.0
Butyl benzyl phthalate	10	U	0.85	10
Caprolactam	10	U	0.68	10
Carbazole	10	U	0.68	10
Chrysene	2.0	U	0.91	2.0
Dibenz(a,h)anthracene	1.0	U	0.72	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: EB-001**

Lab Sample ID: 460-156390-8

Client Matrix: Water

Date Sampled: 05/17/2018 1030

Date Received: 05/17/2018 1940

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D	Analysis Batch: 460-520998	Instrument ID: CBNAMS16
Prep Method: 3510C	Prep Batch: 460-520597	Lab File ID: A153232.D
Dilution: 1.0		Initial Weight/Volume: 250 mL
Analysis Date: 05/21/2018 1645		Final Weight/Volume: 2 mL
Prep Date: 05/19/2018 0722		Injection Volume: 5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	10	U	1.1	10
Diethyl phthalate	1.3	J	0.98	10
Dimethyl phthalate	10	U	0.77	10
Di-n-butyl phthalate	10	U	0.84	10
Di-n-octyl phthalate	10	U	4.8	10
Fluoranthene	10	U	0.84	10
Fluorene	10	U	0.91	10
Hexachlorobenzene	1.0	U	0.40	1.0
Hexachlorobutadiene	1.0	U	0.78	1.0
Hexachlorocyclopentadiene	10	U	1.7	10
Hexachloroethane	2.0	U	1.2	2.0
Indeno[1,2,3-cd]pyrene	2.0	U	1.3	2.0
Isophorone	10	U	0.80	10
Naphthalene	10	U	1.1	10
Nitrobenzene	1.0	U	0.57	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.43	1.0
N-Nitrosodiphenylamine	10	U	0.89	10
Pentachlorophenol	20	U	1.4	20
Phenanthrene	10	U	0.58	10
Phenol	10	U	0.29	10
Pyrene	10	U	1.6	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)	121		26 - 139	
2-Fluorobiphenyl	112	X	45 - 107	
2-Fluorophenol (Surr)	42		25 - 58	
Nitrobenzene-d5 (Surr)	107		51 - 108	
Phenol-d5 (Surr)	26		14 - 39	
Terphenyl-d14 (Surr)	86		40 - 148	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-001 (11'-13')

Lab Sample ID: 460-156390-1

Client Matrix: Solid

% Moisture: 2.3

Date Sampled: 05/17/2018 0925

Date Received: 05/17/2018 1940

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0065 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1306

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0069	U	0.0012	0.0069
4,4'-DDE		0.0069	U	0.00081	0.0069
4,4'-DDT		0.0069	U	0.0013	0.0069
Aldrin		0.0069	U	0.0010	0.0069
alpha-BHC		0.0020	U	0.00070	0.0020
beta-BHC		0.0020	U	0.00077	0.0020
Chlordane (technical)		0.069	U	0.017	0.069
delta-BHC		0.0020	U	0.00042	0.0020
Dieldrin		0.0020	U	0.00089	0.0020
Endosulfan I		0.0069	U	0.0010	0.0069
Endosulfan II		0.0069	U	0.0018	0.0069
Endosulfan sulfate		0.0069	U	0.00086	0.0069
Endrin		0.0069	U	0.00098	0.0069
Endrin aldehyde		0.0069	U	0.0016	0.0069
Endrin ketone		0.0069	U	0.0013	0.0069
gamma-BHC (Lindane)		0.0020	U	0.00063	0.0020
Heptachlor		0.0069	U	0.00081	0.0069
Heptachlor epoxide		0.0069	U	0.0010	0.0069
Methoxychlor		0.0069	U	0.0016	0.0069
Toxaphene		0.069	U	0.025	0.069

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	97		69 - 150
Tetrachloro-m-xylene	98		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-001 (11'-13')**

Lab Sample ID: 460-156390-1

Date Sampled: 05/17/2018 0925

Client Matrix: Solid

% Moisture: 2.3

Date Received: 05/17/2018 1940

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0065 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1306

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	89		69 - 150
Tetrachloro-m-xylene	90		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: **SB-002 (6'-8')**

Lab Sample ID: 460-156390-2

Date Sampled: 05/17/2018 1015

Client Matrix: Solid

% Moisture: 12.4

Date Received: 05/17/2018 1940

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0047 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1319

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0076	U	0.0013	0.0076
4,4'-DDE		0.0076	U	0.00090	0.0076
4,4'-DDT		0.0076	U	0.0014	0.0076
Aldrin		0.0076	U	0.0012	0.0076
alpha-BHC		0.0023	U	0.00078	0.0023
beta-BHC		0.0023	U	0.00086	0.0023
Chlordane (technical)		0.076	U	0.018	0.076
delta-BHC		0.0023	U	0.00047	0.0023
Dieldrin		0.0023	U	0.00099	0.0023
Endosulfan I		0.0076	U	0.0012	0.0076
Endosulfan II		0.0076	U	0.0020	0.0076
Endosulfan sulfate		0.0076	U	0.00096	0.0076
Endrin		0.0076	U	0.0011	0.0076
Endrin aldehyde		0.0076	U	0.0018	0.0076
Endrin ketone		0.0076	U	0.0015	0.0076
gamma-BHC (Lindane)		0.0023	U	0.00071	0.0023
Heptachlor		0.0076	U	0.00090	0.0076
Heptachlor epoxide		0.0076	U	0.0011	0.0076
Methoxychlor		0.0076	U	0.0017	0.0076
Toxaphene		0.076	U	0.028	0.076

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	92		69 - 150
Tetrachloro-m-xylene	93		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-002 (6'-8')**

Lab Sample ID: 460-156390-2

Date Sampled: 05/17/2018 1015

Client Matrix: Solid

% Moisture: 12.4

Date Received: 05/17/2018 1940

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0047 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1319

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	83		69 - 150
Tetrachloro-m-xylene	87		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-003 (8'-10')**

Lab Sample ID: 460-156390-3

Date Sampled: 05/17/2018 1135

Client Matrix: Solid

% Moisture: 8.7

Date Received: 05/17/2018 1940

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0112 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1332

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0073	U	0.0012	0.0073
4,4'-DDE		0.0073	U	0.00086	0.0073
4,4'-DDT		0.0073	U	0.0013	0.0073
Aldrin		0.0073	U	0.0011	0.0073
alpha-BHC		0.0022	U	0.00074	0.0022
beta-BHC		0.0022	U	0.00082	0.0022
Chlordane (technical)		0.073	U	0.018	0.073
delta-BHC		0.0022	U	0.00045	0.0022
Dieldrin		0.0022	U	0.00095	0.0022
Endosulfan I		0.0073	U	0.0011	0.0073
Endosulfan II		0.0073	U	0.0019	0.0073
Endosulfan sulfate		0.0073	U	0.00092	0.0073
Endrin		0.0073	U	0.0011	0.0073
Endrin aldehyde		0.0073	U	0.0017	0.0073
Endrin ketone		0.0073	U	0.0014	0.0073
gamma-BHC (Lindane)		0.0022	U	0.00068	0.0022
Heptachlor		0.0073	U	0.00086	0.0073
Heptachlor epoxide		0.0073	U	0.0011	0.0073
Methoxychlor		0.0073	U	0.0017	0.0073
Toxaphene		0.073	U	0.026	0.073

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	88		69 - 150
Tetrachloro-m-xylene	90		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-003 (8'-10')**

Lab Sample ID: 460-156390-3

Date Sampled: 05/17/2018 1135

Client Matrix: Solid

% Moisture: 8.7

Date Received: 05/17/2018 1940

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0112 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1332

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	83		69 - 150
Tetrachloro-m-xylene	88		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: **SB-004 (2'-4')**

Lab Sample ID: 460-156390-4

Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 05/17/2018 1235

Date Received: 05/17/2018 1940

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 05/21/2018 1344

Prep Date: 05/18/2018 2055

Analysis Batch: 460-521047

Prep Batch: 460-520489

Instrument ID: CPESTGC5

Initial Weight/Volume: +15.0470 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0071	U	0.0012	0.0071
4,4'-DDE		0.0071	U	0.00083	0.0071
4,4'-DDT		0.0071	U	0.0013	0.0071
Aldrin		0.0071	U	0.0011	0.0071
alpha-BHC		0.0021	U	0.00072	0.0021
beta-BHC		0.0021	U	0.00079	0.0021
Chlordane (technical)		0.071	U	0.017	0.071
delta-BHC		0.0021	U	0.00043	0.0021
Dieldrin		0.0021	U	0.00092	0.0021
Endosulfan I		0.0071	U	0.0011	0.0071
Endosulfan II		0.0071	U	0.0018	0.0071
Endosulfan sulfate		0.0071	U	0.00089	0.0071
Endrin		0.0071	U	0.0010	0.0071
Endrin aldehyde		0.0071	U	0.0017	0.0071
Endrin ketone		0.0071	U	0.0014	0.0071
gamma-BHC (Lindane)		0.0021	U	0.00065	0.0021
Heptachlor		0.0071	U	0.00083	0.0071
Heptachlor epoxide		0.0071	U	0.0011	0.0071
Methoxychlor		0.0071	U	0.0016	0.0071
Toxaphene		0.071	U	0.026	0.071

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	80		69 - 150
Tetrachloro-m-xylene	80		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-004 (2'-4')**

Lab Sample ID: 460-156390-4

Date Sampled: 05/17/2018 1235

Client Matrix: Solid

% Moisture: 5.5

Date Received: 05/17/2018 1940

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0470 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1344

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	73		69 - 150
Tetrachloro-m-xylene	74		74 - 150



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-004 (20'-22')**

Lab Sample ID: 460-156390-5

Date Sampled: 05/17/2018 1245

Client Matrix: Solid

% Moisture: 6.4

Date Received: 05/17/2018 1940

**8081B Organochlorine Pesticides (GC)**

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0005 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1357

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0072	U	0.0012	0.0072
4,4'-DDE		0.0072	U	0.00084	0.0072
4,4'-DDT		0.0072	U	0.0013	0.0072
Aldrin		0.0072	U	0.0011	0.0072
alpha-BHC		0.0021	U	0.00073	0.0021
beta-BHC		0.0021	U	0.00080	0.0021
Chlordane (technical)		0.072	U	0.017	0.072
delta-BHC		0.0021	U	0.00044	0.0021
Dieldrin		0.0021	U	0.00093	0.0021
Endosulfan I		0.0072	U	0.0011	0.0072
Endosulfan II		0.0072	U	0.0018	0.0072
Endosulfan sulfate		0.0072	U	0.00090	0.0072
Endrin		0.0072	U	0.0010	0.0072
Endrin aldehyde		0.0072	U	0.0017	0.0072
Endrin ketone		0.0072	U	0.0014	0.0072
gamma-BHC (Lindane)		0.0021	U	0.00066	0.0021
Heptachlor		0.0072	U	0.00084	0.0072
Heptachlor epoxide		0.0072	U	0.0011	0.0072
Methoxychlor		0.0072	U	0.0016	0.0072
Toxaphene		0.072	U	0.026	0.072

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	88		69 - 150
Tetrachloro-m-xylene	89		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-004 (20'-22')**

Lab Sample ID: 460-156390-5

Date Sampled: 05/17/2018 1245

Client Matrix: Solid

% Moisture: 6.4

Date Received: 05/17/2018 1940

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0005 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1357

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	81		69 - 150
Tetrachloro-m-xylene	82		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-005 (2'-4')

Lab Sample ID: 460-156390-6

Client Matrix: Solid

% Moisture: 1.3

Date Sampled: 05/17/2018 1435

Date Received: 05/17/2018 1940

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0018 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1410

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0068	U	0.0012	0.0068
4,4'-DDE		0.0068	U	0.00080	0.0068
4,4'-DDT		0.0068	U	0.0012	0.0068
Aldrin		0.0068	U	0.0010	0.0068
alpha-BHC		0.0020	U	0.00069	0.0020
beta-BHC		0.0020	U	0.00076	0.0020
Chlordane (technical)		0.068	U	0.016	0.068
delta-BHC		0.0020	U	0.00042	0.0020
Dieldrin		0.0020	U	0.00088	0.0020
Endosulfan I		0.0068	U	0.0010	0.0068
Endosulfan II		0.0068	U	0.0017	0.0068
Endosulfan sulfate		0.0068	U	0.00085	0.0068
Endrin		0.0068	U	0.00097	0.0068
Endrin aldehyde		0.0068	U	0.0016	0.0068
Endrin ketone		0.0068	U	0.0013	0.0068
gamma-BHC (Lindane)		0.0020	U	0.00063	0.0020
Heptachlor		0.0068	U	0.00080	0.0068
Heptachlor epoxide		0.0068	U	0.0010	0.0068
Methoxychlor		0.0068	U	0.0016	0.0068
Toxaphene		0.068	U	0.025	0.068

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	75		69 - 150
Tetrachloro-m-xylene	77		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-005 (2'-4')**

Lab Sample ID: 460-156390-6

Date Sampled: 05/17/2018 1435

Client Matrix: Solid

% Moisture: 1.3

Date Received: 05/17/2018 1940

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0018 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1410

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	73		69 - 150
Tetrachloro-m-xylene	74		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: DUP-001

Lab Sample ID: 460-156390-7

Client Matrix: Solid

% Moisture: 9.4

Date Sampled: 05/17/2018 0000

Date Received: 05/17/2018 1940

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-521047	Instrument ID:	CPESTGC5
Prep Method:	3546	Prep Batch:	460-520489	Initial Weight/Volume:	+15.0029 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/21/2018 1423			Injection Volume:	1 uL
Prep Date:	05/18/2018 2055			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0074	U	0.0013	0.0074
4,4'-DDE		0.0074	U	0.00087	0.0074
4,4'-DDT		0.0074	U	0.0014	0.0074
Aldrin		0.0074	U	0.0011	0.0074
alpha-BHC		0.0022	U	0.00075	0.0022
beta-BHC		0.0022	U	0.00083	0.0022
Chlordane (technical)		0.074	U	0.018	0.074
delta-BHC		0.0022	U	0.00045	0.0022
Dieldrin		0.0022	U	0.00096	0.0022
Endosulfan I		0.0074	U	0.0011	0.0074
Endosulfan II		0.0074	U	0.0019	0.0074
Endosulfan sulfate		0.0074	U	0.00093	0.0074
Endrin		0.0074	U	0.0011	0.0074
Endrin aldehyde		0.0074	U	0.0017	0.0074
Endrin ketone		0.0074	U	0.0014	0.0074
gamma-BHC (Lindane)		0.0022	U	0.00068	0.0022
Heptachlor		0.0074	U	0.00087	0.0074
Heptachlor epoxide		0.0074	U	0.0011	0.0074
Methoxychlor		0.0074	U	0.0017	0.0074
Toxaphene		0.074	U	0.027	0.074

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	82		69 - 150
Tetrachloro-m-xylene	84		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: DUP-001**

Lab Sample ID: 460-156390-7

Date Sampled: 05/17/2018 0000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/17/2018 1940

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521047

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-520489

Initial Weight/Volume: +15.0029 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1423

Injection Volume: 1 uL

Prep Date: 05/18/2018 2055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	76		69 - 150
Tetrachloro-m-xylene	81		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: EB-001

Lab Sample ID: 460-156390-8

Client Matrix: Water

Date Sampled: 05/17/2018 1030

Date Received: 05/17/2018 1940

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-521044	Instrument ID:	CPESTGC4
Prep Method:	3510C	Prep Batch:	460-520339	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/21/2018 1137			Injection Volume:	1 uL
Prep Date:	05/18/2018 1035			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	63		10 - 150
Tetrachloro-m-xylene	64		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: EB-001**

Lab Sample ID: 460-156390-8

Date Sampled: 05/17/2018 1030

Client Matrix: Water

Date Received: 05/17/2018 1940

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521044

Instrument ID: CPESTGC4

Prep Method: 3510C

Prep Batch: 460-520339

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 1 mL

Analysis Date: 05/21/2018 1137

Injection Volume: 1 uL

Prep Date: 05/18/2018 1035

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	56		10 - 150
Tetrachloro-m-xylene	60		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-001 (11'-13')

Lab Sample ID: 460-156390-1

Date Sampled: 05/17/2018 0925

Client Matrix: Solid

% Moisture: 2.3

Date Received: 05/17/2018 1940

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0065 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/19/2018 2334

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.069	U	0.0091	0.069
Aroclor 1221		0.069	U	0.0091	0.069
Aroclor 1232		0.069	U	0.0091	0.069
Aroclor 1242		0.069	U	0.0091	0.069
Aroclor 1248		0.069	U	0.0091	0.069
Aroclor 1254		0.069	U	0.0094	0.069
Aroclor 1260		0.069	U	0.0094	0.069
Aroclor-1262		0.069	U	0.0094	0.069
Aroclor 1268		0.069	U	0.0094	0.069
Polychlorinated biphenyls, Total		0.069	U	0.0094	0.069

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	148		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-001 (11'-13')**

Lab Sample ID: 460-156390-1

Date Sampled: 05/17/2018 0925

Client Matrix: Solid

% Moisture: 2.3

Date Received: 05/17/2018 1940

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0065 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/19/2018 2334

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	128		53 - 150

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-002 (6'-8')

Lab Sample ID: 460-156390-2

Client Matrix: Solid

% Moisture: 12.4

Date Sampled: 05/17/2018 1015

Date Received: 05/17/2018 1940

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0047 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/19/2018 2352

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.076	U	0.010	0.076
Aroclor 1221		0.076	U	0.010	0.076
Aroclor 1232		0.076	U	0.010	0.076
Aroclor 1242		0.076	U	0.010	0.076
Aroclor 1248		0.076	U	0.010	0.076
Aroclor 1254		0.076	U	0.010	0.076
Aroclor 1260		0.076	U	0.010	0.076
Aroclor-1262		0.076	U	0.010	0.076
Aroclor 1268		0.076	U	0.010	0.076
Polychlorinated biphenyls, Total		0.076	U	0.010	0.076

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	124		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-002 (6'-8')**

Lab Sample ID: 460-156390-2

Date Sampled: 05/17/2018 1015

Client Matrix: Solid

% Moisture: 12.4

Date Received: 05/17/2018 1940

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0047 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/19/2018 2352

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	114		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-003 (8'-10')

Lab Sample ID: 460-156390-3

Date Sampled: 05/17/2018 1135

Client Matrix: Solid

% Moisture: 8.7

Date Received: 05/17/2018 1940

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0112 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/20/2018 0009

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.073	U	0.0097	0.073
Aroclor 1221		0.073	U	0.0097	0.073
Aroclor 1232		0.073	U	0.0097	0.073
Aroclor 1242		0.073	U	0.0097	0.073
Aroclor 1248		0.073	U	0.0097	0.073
Aroclor 1254		0.073	U	0.010	0.073
Aroclor 1260		0.073	U	0.010	0.073
Aroclor-1262		0.073	U	0.010	0.073
Aroclor 1268		0.073	U	0.010	0.073
Polychlorinated biphenyls, Total		0.073	U	0.010	0.073

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	124		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-003 (8'-10')**

Lab Sample ID: 460-156390-3

Date Sampled: 05/17/2018 1135

Client Matrix: Solid

% Moisture: 8.7

Date Received: 05/17/2018 1940

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0112 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/20/2018 0009

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	116		53 - 150

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-004 (2'-4')

Lab Sample ID: 460-156390-4

Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 05/17/2018 1235

Date Received: 05/17/2018 1940

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0470 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/20/2018 0027

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.071	U	0.0094	0.071
Aroclor 1221		0.071	U	0.0094	0.071
Aroclor 1232		0.071	U	0.0094	0.071
Aroclor 1242		0.071	U	0.0094	0.071
Aroclor 1248		0.071	U	0.0094	0.071
Aroclor 1254		0.071	U	0.0097	0.071
Aroclor 1260		0.071	U	0.0097	0.071
Aroclor-1262		0.071	U	0.0097	0.071
Aroclor 1268		0.071	U	0.0097	0.071
Polychlorinated biphenyls, Total		0.071	U	0.0097	0.071

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	118		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-004 (2'-4')**

Lab Sample ID: 460-156390-4

Date Sampled: 05/17/2018 1235

Client Matrix: Solid

% Moisture: 5.5

Date Received: 05/17/2018 1940

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0470 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/20/2018 0027

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	109		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-004 (20'-22')

Lab Sample ID: 460-156390-5

Date Sampled: 05/17/2018 1245

Client Matrix: Solid

% Moisture: 6.4

Date Received: 05/17/2018 1940

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0005 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/20/2018 0044

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.072	U	0.0095	0.072
Aroclor 1221		0.072	U	0.0095	0.072
Aroclor 1232		0.072	U	0.0095	0.072
Aroclor 1242		0.072	U	0.0095	0.072
Aroclor 1248		0.072	U	0.0095	0.072
Aroclor 1254		0.072	U	0.0098	0.072
Aroclor 1260		0.072	U	0.0098	0.072
Aroclor-1262		0.072	U	0.0098	0.072
Aroclor 1268		0.072	U	0.0098	0.072
Polychlorinated biphenyls, Total		0.072	U	0.0098	0.072

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	115		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-004 (20'-22')**

Lab Sample ID: 460-156390-5

Date Sampled: 05/17/2018 1245

Client Matrix: Solid

% Moisture: 6.4

Date Received: 05/17/2018 1940

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0005 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/20/2018 0044

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	106		53 - 150

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-005 (2'-4')

Lab Sample ID: 460-156390-6

Client Matrix: Solid

% Moisture: 1.3

Date Sampled: 05/17/2018 1435

Date Received: 05/17/2018 1940

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0018 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/20/2018 0101

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.068	U	0.0090	0.068
Aroclor 1221		0.068	U	0.0090	0.068
Aroclor 1232		0.068	U	0.0090	0.068
Aroclor 1242		0.068	U	0.0090	0.068
Aroclor 1248		0.068	U	0.0090	0.068
Aroclor 1254		0.068	U	0.0093	0.068
Aroclor 1260		0.068	U	0.0093	0.068
Aroclor-1262		0.068	U	0.0093	0.068
Aroclor 1268		0.068	U	0.0093	0.068
Polychlorinated biphenyls, Total		0.068	U	0.0093	0.068

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	106		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-005 (2'-4')**

Lab Sample ID: 460-156390-6

Date Sampled: 05/17/2018 1435

Client Matrix: Solid

% Moisture: 1.3

Date Received: 05/17/2018 1940

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0018 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/20/2018 0101

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	99		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: DUP-001

Lab Sample ID: 460-156390-7

Date Sampled: 05/17/2018 0000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/17/2018 1940

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0029 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/20/2018 0119

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.074	U	0.0098	0.074
Aroclor 1221		0.074	U	0.0098	0.074
Aroclor 1232		0.074	U	0.0098	0.074
Aroclor 1242		0.074	U	0.0098	0.074
Aroclor 1248		0.074	U	0.0098	0.074
Aroclor 1254		0.074	U	0.010	0.074
Aroclor 1260		0.074	U	0.010	0.074
Aroclor-1262		0.074	U	0.010	0.074
Aroclor 1268		0.074	U	0.010	0.074
Polychlorinated biphenyls, Total		0.074	U	0.010	0.074

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	118		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: DUP-001**

Lab Sample ID: 460-156390-7

Date Sampled: 05/17/2018 0000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/17/2018 1940

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-520728

Instrument ID: CPESTGC8

Prep Method: 3546

Prep Batch: 460-520503

Initial Weight/Volume: +15.0029 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/20/2018 0119

Injection Volume: 1 uL

Prep Date: 05/18/2018 2115

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	104		53 - 150

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: EB-001

Lab Sample ID: 460-156390-8

Client Matrix: Water

Date Sampled: 05/17/2018 1030

Date Received: 05/17/2018 1940

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	460-520668	Instrument ID:	CPESTGC9
Prep Method:	3510C	Prep Batch:	460-520346	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/19/2018 1619			Injection Volume:	1 uL
Prep Date:	05/18/2018 1045			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aroclor 1016	0.40	U	0.10	0.40
Aroclor 1221	0.40	U	0.10	0.40
Aroclor 1232	0.40	U	0.10	0.40
Aroclor 1242	0.40	U	0.10	0.40
Aroclor 1248	0.40	U	0.10	0.40
Aroclor 1254	0.40	U	0.099	0.40
Aroclor 1260	0.40	U	0.099	0.40
Aroclor-1262	0.40	U	0.099	0.40
Aroclor 1268	0.40	U	0.099	0.40
Polychlorinated biphenyls, Total	0.40	U	0.10	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	77		10 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: EB-001**

Lab Sample ID: 460-156390-8

Date Sampled: 05/17/2018 1030

Client Matrix: Water

Date Received: 05/17/2018 1940

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	460-520668	Instrument ID:	CPESTGC9
Prep Method:	3510C	Prep Batch:	460-520346	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/19/2018 1619			Injection Volume:	1 uL
Prep Date:	05/18/2018 1045			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	75		10 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-001 (11'-13')**

Lab Sample ID: 460-156390-1

Date Sampled: 05/17/2018 0925

Client Matrix: Solid

% Moisture: 2.3

Date Received: 05/17/2018 1940

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0407 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1149

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.034	U	0.0072	0.034
2,4-D		0.034	U	0.012	0.034
Silvex (2,4,5-TP)		0.034	U	0.0035	0.034

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	142		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-001 (11'-13')**

Lab Sample ID: 460-156390-1

Date Sampled: 05/17/2018 0925

Client Matrix: Solid

% Moisture: 2.3

Date Received: 05/17/2018 1940

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0407 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1149

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	123		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: **SB-002 (6'-8')**

Lab Sample ID: 460-156390-2

Client Matrix: Solid

% Moisture: 12.4

Date Sampled: 05/17/2018 1015

Date Received: 05/17/2018 1940

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0405 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1204

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.038	U	0.0081	0.038
2,4-D		0.038	U	0.014	0.038
Silvex (2,4,5-TP)		0.038	U	0.0040	0.038
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		132		80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-002 (6'-8')**

Lab Sample ID: 460-156390-2

Date Sampled: 05/17/2018 1015

Client Matrix: Solid

% Moisture: 12.4

Date Received: 05/17/2018 1940

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0405 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1204

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	123		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: **SB-003 (8'-10')**

Lab Sample ID: 460-156390-3

Date Sampled: 05/17/2018 1135

Client Matrix: Solid

% Moisture: 8.7

Date Received: 05/17/2018 1940

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0410 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1219

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.036	U	0.0077	0.036
2,4-D		0.036	U	0.013	0.036
Silvex (2,4,5-TP)		0.036	U	0.0038	0.036

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	137		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-003 (8'-10')**

Lab Sample ID: 460-156390-3

Date Sampled: 05/17/2018 1135

Client Matrix: Solid

% Moisture: 8.7

Date Received: 05/17/2018 1940

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0410 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1219

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	124		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: **SB-004 (2'-4')**

Lab Sample ID: 460-156390-4

Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 05/17/2018 1235

Date Received: 05/17/2018 1940

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0384 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1233

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.035	U	0.0075	0.035
2,4-D		0.035	U	0.013	0.035
Silvex (2,4,5-TP)		0.035	U	0.0037	0.035

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	137		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-004 (2'-4')**

Lab Sample ID: 460-156390-4

Date Sampled: 05/17/2018 1235

Client Matrix: Solid

% Moisture: 5.5

Date Received: 05/17/2018 1940

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0384 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1233

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	107		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: **SB-004 (20'-22')**

Lab Sample ID: 460-156390-5

Date Sampled: 05/17/2018 1245

Client Matrix: Solid

% Moisture: 6.4

Date Received: 05/17/2018 1940

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0261 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1248

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.036	U	0.0076	0.036
2,4-D		0.036	U	0.013	0.036
Silvex (2,4,5-TP)		0.036	U	0.0037	0.036

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	135		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-004 (20'-22')**

Lab Sample ID: 460-156390-5

Date Sampled: 05/17/2018 1245

Client Matrix: Solid

% Moisture: 6.4

Date Received: 05/17/2018 1940

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0261 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1248

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	129		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: **SB-005 (2'-4')**

Lab Sample ID: 460-156390-6

Client Matrix: Solid

% Moisture: 1.3

Date Sampled: 05/17/2018 1435

Date Received: 05/17/2018 1940

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0249 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1303

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.034	U	0.0072	0.034
2,4-D		0.034	U	0.012	0.034
Silvex (2,4,5-TP)		0.034	U	0.0035	0.034
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		134		80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-005 (2'-4')**

Lab Sample ID: 460-156390-6

Client Matrix: Solid

% Moisture: 1.3

Date Sampled: 05/17/2018 1435

Date Received: 05/17/2018 1940

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Prep Method: 8151A

Dilution: 1.0

Analysis Date: 05/21/2018 1303

Prep Date: 05/20/2018 0113

Analysis Batch: 460-521036

Prep Batch: 460-520808

Instrument ID: CPESTGC3

Initial Weight/Volume: 30.0249 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	131		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: DUP-001**

Lab Sample ID: 460-156390-7

Date Sampled: 05/17/2018 0000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/17/2018 1940

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1317

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.037	U	0.0078	0.037
2,4-D		0.037	U	0.013	0.037
Silvex (2,4,5-TP)		0.037	U	0.0038	0.037

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	138		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: DUP-001**

Lab Sample ID: 460-156390-7

Date Sampled: 05/17/2018 0000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/17/2018 1940

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521036

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-520808

Initial Weight/Volume: 30.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/21/2018 1317

Injection Volume: 1 uL

Prep Date: 05/20/2018 0113

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	121		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: EB-001**

Lab Sample ID: 460-156390-8

Client Matrix: Water

Date Sampled: 05/17/2018 1030

Date Received: 05/17/2018 1940

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521034

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-520804

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/21/2018 0839

Injection Volume: 1 uL

Prep Date: 05/20/2018 0100

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	105		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: EB-001**

Lab Sample ID: 460-156390-8

Client Matrix: Water

Date Sampled: 05/17/2018 1030

Date Received: 05/17/2018 1940

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Prep Method: 8151A

Dilution: 1.0

Analysis Date: 05/21/2018 0839

Prep Date: 05/20/2018 0100

Analysis Batch: 460-521034

Prep Batch: 460-520804

Instrument ID: CPESTGC1

Initial Weight/Volume: 250 mL

Final Weight/Volume: 3 mL

Injection Volume: 1 uL

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	103		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-001 (11'-13')**

Lab Sample ID: 460-156390-1

Date Sampled: 05/17/2018 0925

Client Matrix: Solid

% Moisture: 2.3

Date Received: 05/17/2018 1940

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522179

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522104

Lab File ID: 522111D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.07 g

Analysis Date: 05/24/2018 1351

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0809

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		554	F1	7.8	38.2
Antimony		3.8	U	0.46	3.8
Arsenic		1.0	J	0.71	2.9
Barium		38.2	U	3.1	38.2
Beryllium		0.073	J	0.044	0.38
Cadmium		0.76	U	0.11	0.76
Calcium		956	U	97.5	956
Chromium		1.3	J	0.53	1.9
Cobalt		9.6	U	1.1	9.6
Copper		2.1	J	1.1	4.8
Iron		2380		5.2	28.7
Lead		1.5	J	0.58	1.9
Magnesium		118	J	73.7	956
Manganese		18.1		0.30	2.9
Nickel		7.6	U	0.73	7.6
Potassium		56.7	J	50.9	956
Selenium		3.8	U	1.2	3.8
Silver		1.9	U	0.29	1.9
Sodium		956	U	73.6	956
Thallium		3.8	U	1.1	3.8
Vanadium		2.0	J	1.1	9.6
Zinc		2.1	J	0.49	5.7

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-521461

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-521332

Lab File ID: 531312HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.65 g

Analysis Date: 05/22/2018 1015

Final Weight/Volume: 50 mL

Prep Date: 05/22/2018 0505

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.016	U	0.0094	0.016



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-002 (6'-8')**

Lab Sample ID: 460-156390-2

Date Sampled: 05/17/2018 1015

Client Matrix: Solid

% Moisture: 12.4

Date Received: 05/17/2018 1940

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522179

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522104

Lab File ID: 522111D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.04 g

Analysis Date: 05/24/2018 1402

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0809

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		732		9.0	43.9
Antimony		4.4	U	0.53	4.4
Arsenic		3.3	U	0.81	3.3
Barium		43.9	U	3.6	43.9
Beryllium		0.072	J	0.050	0.44
Cadmium		0.88	U	0.13	0.88
Calcium		1100	U	112	1100
Chromium		2.5		0.61	2.2
Cobalt		11.0	U	1.3	11.0
Copper		2.4	J	1.2	5.5
Iron		2440		5.9	32.9
Lead		0.91	J	0.66	2.2
Magnesium		92.1	J	84.6	1100
Manganese		87.2		0.34	3.3
Nickel		2.1	J	0.83	8.8
Potassium		1100	U	58.4	1100
Selenium		4.4	U	1.3	4.4
Silver		2.2	U	0.33	2.2
Sodium		1100	U	84.5	1100
Thallium		4.4	U	1.3	4.4
Vanadium		2.8	J	1.3	11.0
Zinc		4.3	J	0.57	6.6

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-521461

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-521332

Lab File ID: 531312HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.67 g

Analysis Date: 05/22/2018 1020

Final Weight/Volume: 50 mL

Prep Date: 05/22/2018 0505

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.017	U	0.010	0.017



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-003 (8'-10')**

Lab Sample ID: 460-156390-3

Date Sampled: 05/17/2018 1135

Client Matrix: Solid

% Moisture: 8.7

Date Received: 05/17/2018 1940

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522179

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522104

Lab File ID: 522111D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.05 g

Analysis Date: 05/24/2018 1406

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0809

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2260		8.6	41.7
Antimony		4.2	U	0.50	4.2
Arsenic		1.2	J	0.77	3.1
Barium		10.2	J	3.4	41.7
Beryllium		0.19	J	0.048	0.42
Cadmium		0.83	U	0.12	0.83
Calcium		1040	U	106	1040
Chromium		6.9		0.58	2.1
Cobalt		1.6	J	1.2	10.4
Copper		4.9	J	1.2	5.2
Iron		5610		5.6	31.3
Lead		2.7		0.63	2.1
Magnesium		507	J	80.4	1040
Manganese		50.9		0.32	3.1
Nickel		2.4	J	0.79	8.3
Potassium		129	J	55.5	1040
Selenium		4.2	U	1.3	4.2
Silver		2.1	U	0.32	2.1
Sodium		1040	U	80.3	1040
Thallium		4.2	U	1.2	4.2
Vanadium		5.7	J	1.2	10.4
Zinc		7.1		0.54	6.3

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-521461

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-521332

Lab File ID: 531312HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.66 g

Analysis Date: 05/22/2018 1022

Final Weight/Volume: 50 mL

Prep Date: 05/22/2018 0505

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.017	U	0.010	0.017



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-004 (2'-4')

Lab Sample ID: 460-156390-4

Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 05/17/2018 1235

Date Received: 05/17/2018 1940

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522179

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522104

Lab File ID: 522111D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/24/2018 1422

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0809

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2530		8.4	41.1
Antimony		4.1	U	0.49	4.1
Arsenic		3.1	U	0.76	3.1
Barium		3.8	J	3.3	41.1
Beryllium		0.15	J	0.047	0.41
Cadmium		0.82	U	0.12	0.82
Calcium		1030	U	105	1030
Chromium		4.8		0.57	2.1
Cobalt		1.5	J	1.2	10.3
Copper		2.6	J	1.2	5.1
Iron		4110		5.5	30.8
Lead		1.5	J	0.62	2.1
Magnesium		388	J	79.2	1030
Manganese		54.3		0.32	3.1
Nickel		2.4	J	0.78	8.2
Potassium		131	J	54.7	1030
Selenium		4.1	U	1.2	4.1
Silver		2.1	U	0.31	2.1
Sodium		1030	U	79.1	1030
Thallium		4.1	U	1.2	4.1
Vanadium		5.8	J	1.2	10.3
Zinc		5.1	J	0.53	6.2

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-521461

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-521332

Lab File ID: 531312HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.60 g

Analysis Date: 05/22/2018 1024

Final Weight/Volume: 50 mL

Prep Date: 05/22/2018 0505

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.013	J	0.011	0.018



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: SB-004 (20'-22')**

Lab Sample ID: 460-156390-5

Date Sampled: 05/17/2018 1245

Client Matrix: Solid

% Moisture: 6.4

Date Received: 05/17/2018 1940

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522179

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522104

Lab File ID: 522111D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.05 g

Analysis Date: 05/24/2018 1426

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0809

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		551		8.3	40.7
Antimony		4.1	U	0.49	4.1
Arsenic		3.1	U	0.75	3.1
Barium		40.7	U	3.3	40.7
Beryllium		0.080	J	0.047	0.41
Cadmium		0.81	U	0.12	0.81
Calcium		1020	U	104	1020
Chromium		2.5		0.56	2.0
Cobalt		10.2	U	1.2	10.2
Copper		2.8	J	1.2	5.1
Iron		2920		5.5	30.5
Lead		1.6	J	0.61	2.0
Magnesium		98.3	J	78.5	1020
Manganese		44.1		0.32	3.1
Nickel		0.88	J	0.77	8.1
Potassium		57.9	J	54.2	1020
Selenium		4.1	U	1.2	4.1
Silver		2.0	U	0.31	2.0
Sodium		1020	U	78.4	1020
Thallium		4.1	U	1.2	4.1
Vanadium		3.0	J	1.2	10.2
Zinc		2.9	J	0.53	6.1

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-521461

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-521332

Lab File ID: 531312HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.64 g

Analysis Date: 05/22/2018 1026

Final Weight/Volume: 50 mL

Prep Date: 05/22/2018 0505

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.017	U	0.010	0.017



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

Client Sample ID: SB-005 (2'-4')

Lab Sample ID: 460-156390-6

Client Matrix: Solid

% Moisture: 1.3

Date Sampled: 05/17/2018 1435

Date Received: 05/17/2018 1940

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522179

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522104

Lab File ID: 522111D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/24/2018 1430

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0809

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1200		8.1	39.4
Antimony		3.9	U	0.47	3.9
Arsenic		3.0	U	0.73	3.0
Barium		39.4	U	3.2	39.4
Beryllium		0.068	J	0.045	0.39
Cadmium		0.79	U	0.12	0.79
Calcium		984	U	100	984
Chromium		3.8		0.55	2.0
Cobalt		2.1	J	1.1	9.8
Copper		3.2	J	1.1	4.9
Iron		2940		5.3	29.5
Lead		0.70	J	0.59	2.0
Magnesium		202	J	75.9	984
Manganese		157		0.31	3.0
Nickel		2.6	J	0.75	7.9
Potassium		984	U	52.3	984
Selenium		3.9	U	1.2	3.9
Silver		2.0	U	0.30	2.0
Sodium		984	U	75.8	984
Thallium		3.9	U	1.2	3.9
Vanadium		3.0	J	1.2	9.8
Zinc		4.8	J	0.51	5.9

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-521461

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-521332

Lab File ID: 531312HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 05/22/2018 1027

Final Weight/Volume: 50 mL

Prep Date: 05/22/2018 0505

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.017	U	0.010	0.017



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: DUP-001**

Lab Sample ID: 460-156390-7

Date Sampled: 05/17/2018 0000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/17/2018 1940

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522179

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522104

Lab File ID: 522111D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.06 g

Analysis Date: 05/24/2018 1434

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0809

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1600		8.5	41.7
Antimony		4.2	U	0.50	4.2
Arsenic		0.90	J	0.77	3.1
Barium		6.4	J	3.4	41.7
Beryllium		0.13	J	0.048	0.42
Cadmium		0.83	U	0.12	0.83
Calcium		1040	U	106	1040
Chromium		3.1		0.58	2.1
Cobalt		10.4	U	1.2	10.4
Copper		3.9	J	1.2	5.2
Iron		4350		5.6	31.3
Lead		1.1	J	0.63	2.1
Magnesium		284	J	80.3	1040
Manganese		37.0		0.32	3.1
Nickel		1.3	J	0.79	8.3
Potassium		100	J	55.4	1040
Selenium		4.2	U	1.3	4.2
Silver		2.1	U	0.32	2.1
Sodium		1040	U	80.2	1040
Thallium		4.2	U	1.2	4.2
Vanadium		4.0	J	1.2	10.4
Zinc		4.2	J	0.54	6.3

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-521461

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-521332

Lab File ID: 531312HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.65 g

Analysis Date: 05/22/2018 1029

Final Weight/Volume: 50 mL

Prep Date: 05/22/2018 0505

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.017	U	0.010	0.017



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Client Sample ID: EB-001**

Lab Sample ID: 460-156390-8

Client Matrix: Water

Date Sampled: 05/17/2018 1030

Date Received: 05/17/2018 1940

### 6020A Metals (ICP/MS)

Analysis Method: 6020A

Analysis Batch: 460-523061

Instrument ID: ICPMS1

Prep Method: 3010A

Prep Batch: 460-522114

Lab File ID: 073SMPL.D

Dilution: 2.0

Initial Weight/Volume: 50 mL

Analysis Date: 05/27/2018 2002

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0948

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	40.0	U	15.0	40.0
Antimony	2.0	U	0.62	2.0
Arsenic	2.0	U	0.77	2.0
Barium	4.0	U	1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Calcium	200	U	67.6	200
Chromium	4.0	U	1.3	4.0
Cobalt	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Iron	120	U	45.7	120
Lead	1.2	U	0.37	1.2
Magnesium	200	U	65.7	200
Manganese	8.0	U	2.7	8.0
Nickel	4.0	U	1.3	4.0
Potassium	200	U	64.9	200
Selenium	10.0	U	0.69	10.0
Silver	2.0	U	1.4	2.0
Sodium	200	U	75.7	200
Thallium	0.80	U	0.24	0.80
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0

### 7470A Mercury (CVAA)

Analysis Method: 7470A

Analysis Batch: 460-521190

Instrument ID: LEEMAN6

Prep Method: 7470A

Prep Batch: 460-521090

Lab File ID: 521088hg1.CSV

Dilution: 1.0

Initial Weight/Volume: 30 mL

Analysis Date: 05/21/2018 1533

Final Weight/Volume: 30 mL

Prep Date: 05/21/2018 1203

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

---

### General Chemistry

**Client Sample ID:** SB-001 (11'-13')

Lab Sample ID: 460-156390-1

Client Matrix: Solid

Date Sampled: 05/17/2018 0925

Date Received: 05/17/2018 1940

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					DryWt Corrected: N
Percent Solids	97.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

---

### General Chemistry

**Client Sample ID:** SB-002 (6'-8')

**Lab Sample ID:** 460-156390-2

**Client Matrix:** Solid

**Date Sampled:** 05/17/2018 1015

**Date Received:** 05/17/2018 1940

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					
		DryWt Corrected: N					
Percent Solids	87.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					
		DryWt Corrected: N					



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

---

### General Chemistry

**Client Sample ID:** SB-003 (8'-10')

Lab Sample ID: 460-156390-3

Client Matrix: Solid

Date Sampled: 05/17/2018 1135

Date Received: 05/17/2018 1940

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					DryWt Corrected: N
Percent Solids	91.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

---

### General Chemistry

**Client Sample ID:** SB-004 (2'-4')

Lab Sample ID: 460-156390-4

Client Matrix: Solid

Date Sampled: 05/17/2018 1235

Date Received: 05/17/2018 1940

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					DryWt Corrected: N
Percent Solids	94.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

---

### General Chemistry

**Client Sample ID:** SB-004 (20'-22')

Lab Sample ID: 460-156390-5

Client Matrix: Solid

Date Sampled: 05/17/2018 1245

Date Received: 05/17/2018 1940

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					
		DryWt Corrected: N					
Percent Solids	93.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					
		DryWt Corrected: N					



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

---

### General Chemistry

**Client Sample ID:** SB-005 (2'-4')

Lab Sample ID: 460-156390-6

Client Matrix: Solid

Date Sampled: 05/17/2018 1435

Date Received: 05/17/2018 1940

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					DryWt Corrected: N
Percent Solids	98.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156390-1

---

### General Chemistry

**Client Sample ID: DUP-001**

Lab Sample ID: 460-156390-7

Date Sampled: 05/17/2018 0000

Client Matrix: Solid

Date Received: 05/17/2018 1940

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					DryWt Corrected: N
Percent Solids	90.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521420	Analysis Date: 05/22/2018 0937					DryWt Corrected: N



## DATA REPORTING QUALIFIERS

Client: PW Grosser Consulting

Job Number: 460-156390-1

Lab Section	Qualifier	Description
GC/MS VOA	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD is outside acceptance limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
GC Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD is outside acceptance limits.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	F2	MS/MSD RPD exceeds control limits
	E	Result exceeded calibration range.
	X	Surrogate is outside control limits
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.



## DATA REPORTING QUALIFIERS

Client: PW Grosser Consulting

Job Number: 460-156390-1

Lab Section	Qualifier	Description
Metals	F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
	F3	Duplicate RPD exceeds the control limit
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



# **QUALITY CONTROL RESULTS**



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Prep Batch: 460-520315</b>					
460-156390-1	SB-001 (11'-13')	T	Solid	5035	
460-156390-2	SB-002 (6'-8')	T	Solid	5035	
460-156390-3	SB-003 (8'-10')	T	Solid	5035	
460-156390-4	SB-004 (2'-4')	T	Solid	5035	
460-156390-5	SB-004 (20'-22')	T	Solid	5035	
460-156390-6	SB-005 (2'-4')	T	Solid	5035	
460-156390-7	DUP-001	T	Solid	5035	
<b>Analysis Batch:460-520812</b>					
LCS 460-520812/3	Lab Control Sample	T	Solid	8260C	
LCSD 460-520812/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 460-520812/7	Method Blank	T	Solid	8260C	
460-156390-1	SB-001 (11'-13')	T	Solid	8260C	460-520315
460-156390-2	SB-002 (6'-8')	T	Solid	8260C	460-520315
460-156390-4	SB-004 (2'-4')	T	Solid	8260C	460-520315
460-156390-5	SB-004 (20'-22')	T	Solid	8260C	460-520315
460-156390-6	SB-005 (2'-4')	T	Solid	8260C	460-520315
460-156390-7	DUP-001	T	Solid	8260C	460-520315
<b>Analysis Batch:460-520984</b>					
LCS 460-520984/3	Lab Control Sample	T	Solid	8260C	
LCSD 460-520984/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 460-520984/7	Method Blank	T	Solid	8260C	
460-156390-3	SB-003 (8'-10')	T	Solid	8260C	460-520315
<b>Analysis Batch:460-522684</b>					
LCS 460-522684/3	Lab Control Sample	T	Water	8260C	
LCSD 460-522684/4	Lab Control Sample Duplicate	T	Water	8260C	
MB 460-522684/9	Method Blank	T	Water	8260C	
460-156390-8	EB-001	T	Water	8260C	
460-156390-9TB	Trip Blank	T	Water	8260C	

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 460-520592</b>					
LCS 460-520592/2-A	Lab Control Sample	T	Solid	3546	
LCS 460-520592/3-A	Lab Control Sample	T	Solid	3546	
MB 460-520592/1-A	Method Blank	T	Solid	3546	
460-155982-B-32-D MS	Matrix Spike	T	Solid	3546	
460-155982-B-32-E MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156390-1	SB-001 (11'-13')	T	Solid	3546	
460-156390-2	SB-002 (6'-8')	T	Solid	3546	
460-156390-3	SB-003 (8'-10')	T	Solid	3546	
460-156390-4	SB-004 (2'-4')	T	Solid	3546	
<b>Prep Batch: 460-520594</b>					
LCS 460-520594/2-A	Lab Control Sample	T	Solid	3546	
LCS 460-520594/3-A	Lab Control Sample	T	Solid	3546	
MB 460-520594/1-A	Method Blank	T	Solid	3546	
460-156390-5	SB-004 (20'-22')	T	Solid	3546	
460-156390-5MS	Matrix Spike	T	Solid	3546	
460-156390-5MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156390-6	SB-005 (2'-4')	T	Solid	3546	
460-156390-7	DUP-001	T	Solid	3546	
<b>Prep Batch: 460-520597</b>					
460-156390-8	EB-001	T	Water	3510C	
<b>Analysis Batch:460-520783</b>					
LCS 460-520592/2-A	Lab Control Sample	T	Solid	8270D	460-520592
LCS 460-520592/3-A	Lab Control Sample	T	Solid	8270D	460-520592
MB 460-520592/1-A	Method Blank	T	Solid	8270D	460-520592
460-155982-B-32-D MS	Matrix Spike	T	Solid	8270D	460-520592
460-155982-B-32-E MSD	Matrix Spike Duplicate	T	Solid	8270D	460-520592
460-156390-1	SB-001 (11'-13')	T	Solid	8270D	460-520592
460-156390-2	SB-002 (6'-8')	T	Solid	8270D	460-520592
460-156390-3	SB-003 (8'-10')	T	Solid	8270D	460-520592
<b>Analysis Batch:460-520791</b>					
LCS 460-520594/2-A	Lab Control Sample	T	Solid	8270D	460-520594
LCS 460-520594/3-A	Lab Control Sample	T	Solid	8270D	460-520594
MB 460-520594/1-A	Method Blank	T	Solid	8270D	460-520594
460-156390-5	SB-004 (20'-22')	T	Solid	8270D	460-520594
460-156390-5MS	Matrix Spike	T	Solid	8270D	460-520594
460-156390-5MSD	Matrix Spike Duplicate	T	Solid	8270D	460-520594
460-156390-6	SB-005 (2'-4')	T	Solid	8270D	460-520594
460-156390-7	DUP-001	T	Solid	8270D	460-520594
<b>Analysis Batch:460-520993</b>					
460-156390-4	SB-004 (2'-4')	T	Solid	8270D	460-520592

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Analysis Batch:460-520998</b>					
460-156390-8	EB-001	T	Water	8270D	460-520597

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-520339</b>					
LCS 460-520339/2-A	Lab Control Sample	T	Water	3510C	
LCSD 460-520339/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 460-520339/1-A	Method Blank	T	Water	3510C	
460-156390-8	EB-001	T	Water	3510C	
<b>Prep Batch: 460-520346</b>					
LCS 460-520346/2-A	Lab Control Sample	T	Water	3510C	
MB 460-520346/1-A	Method Blank	T	Water	3510C	
460-156240-F-13-A MS	Matrix Spike	T	Water	3510C	
460-156240-E-13-A MSD	Matrix Spike Duplicate	T	Water	3510C	
460-156390-8	EB-001	T	Water	3510C	
<b>Prep Batch: 460-520489</b>					
LCS 460-520489/2-A	Lab Control Sample	T	Solid	3546	
MB 460-520489/1-A	Method Blank	T	Solid	3546	
460-156204-A-2-M MS	Matrix Spike	T	Solid	3546	
460-156204-A-2-R MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156390-1	SB-001 (11'-13')	T	Solid	3546	
460-156390-2	SB-002 (6'-8')	T	Solid	3546	
460-156390-3	SB-003 (8'-10')	T	Solid	3546	
460-156390-4	SB-004 (2'-4')	T	Solid	3546	
460-156390-5	SB-004 (20'-22')	T	Solid	3546	
460-156390-6	SB-005 (2'-4')	T	Solid	3546	
460-156390-7	DUP-001	T	Solid	3546	
<b>Prep Batch: 460-520503</b>					
LCS 460-520503/2-A	Lab Control Sample	T	Solid	3546	
MB 460-520503/1-A	Method Blank	T	Solid	3546	
460-156204-A-2-O MS	Matrix Spike	T	Solid	3546	
460-156204-A-2-P MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156390-1	SB-001 (11'-13')	T	Solid	3546	
460-156390-2	SB-002 (6'-8')	T	Solid	3546	
460-156390-3	SB-003 (8'-10')	T	Solid	3546	
460-156390-4	SB-004 (2'-4')	T	Solid	3546	
460-156390-5	SB-004 (20'-22')	T	Solid	3546	
460-156390-6	SB-005 (2'-4')	T	Solid	3546	
460-156390-7	DUP-001	T	Solid	3546	
<b>Analysis Batch: 460-520668</b>					
LCS 460-520346/2-A	Lab Control Sample	T	Water	8082A	460-520346
MB 460-520346/1-A	Method Blank	T	Water	8082A	460-520346
460-156240-F-13-A MS	Matrix Spike	T	Water	8082A	460-520346
460-156240-E-13-A MSD	Matrix Spike Duplicate	T	Water	8082A	460-520346
460-156390-8	EB-001	T	Water	8082A	460-520346

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:460-520728</b>					
LCS 460-520503/2-A	Lab Control Sample	T	Solid	8082A	460-520503
MB 460-520503/1-A	Method Blank	T	Solid	8082A	460-520503
460-156204-A-2-O MS	Matrix Spike	T	Solid	8082A	460-520503
460-156204-A-2-P MSD	Matrix Spike Duplicate	T	Solid	8082A	460-520503
460-156390-1	SB-001 (11'-13')	T	Solid	8082A	460-520503
460-156390-2	SB-002 (6'-8')	T	Solid	8082A	460-520503
460-156390-3	SB-003 (8'-10')	T	Solid	8082A	460-520503
460-156390-4	SB-004 (2'-4')	T	Solid	8082A	460-520503
460-156390-5	SB-004 (20'-22')	T	Solid	8082A	460-520503
460-156390-6	SB-005 (2'-4')	T	Solid	8082A	460-520503
460-156390-7	DUP-001	T	Solid	8082A	460-520503
<b>Prep Batch: 460-520804</b>					
LCS 460-520804/2-A	Lab Control Sample	T	Water	8151A	
LCSD 460-520804/3-A	Lab Control Sample Duplicate	T	Water	8151A	
MB 460-520804/1-A	Method Blank	T	Water	8151A	
460-156390-8	EB-001	T	Water	8151A	
<b>Prep Batch: 460-520808</b>					
LCS 460-520808/2-A	Lab Control Sample	T	Solid	8151A	
MB 460-520808/1-A	Method Blank	T	Solid	8151A	
460-156356-A-21-C MS	Matrix Spike	T	Solid	8151A	
460-156356-A-21-D MSD	Matrix Spike Duplicate	T	Solid	8151A	
460-156390-1	SB-001 (11'-13')	T	Solid	8151A	
460-156390-2	SB-002 (6'-8')	T	Solid	8151A	
460-156390-3	SB-003 (8'-10')	T	Solid	8151A	
460-156390-4	SB-004 (2'-4')	T	Solid	8151A	
460-156390-5	SB-004 (20'-22')	T	Solid	8151A	
460-156390-6	SB-005 (2'-4')	T	Solid	8151A	
460-156390-7	DUP-001	T	Solid	8151A	
<b>Analysis Batch:460-521034</b>					
LCS 460-520804/2-A	Lab Control Sample	T	Water	8151A	460-520804
LCSD 460-520804/3-A	Lab Control Sample Duplicate	T	Water	8151A	460-520804
MB 460-520804/1-A	Method Blank	T	Water	8151A	460-520804
460-156390-8	EB-001	T	Water	8151A	460-520804



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:460-521036</b>					
LCS 460-520808/2-A	Lab Control Sample	T	Solid	8151A	460-520808
MB 460-520808/1-A	Method Blank	T	Solid	8151A	460-520808
460-156356-A-21-C MS	Matrix Spike	T	Solid	8151A	460-520808
460-156356-A-21-D MSD	Matrix Spike Duplicate	T	Solid	8151A	460-520808
460-156390-1	SB-001 (11'-13')	T	Solid	8151A	460-520808
460-156390-2	SB-002 (6'-8')	T	Solid	8151A	460-520808
460-156390-3	SB-003 (8'-10')	T	Solid	8151A	460-520808
460-156390-4	SB-004 (2'-4')	T	Solid	8151A	460-520808
460-156390-5	SB-004 (20'-22')	T	Solid	8151A	460-520808
460-156390-6	SB-005 (2'-4')	T	Solid	8151A	460-520808
460-156390-7	DUP-001	T	Solid	8151A	460-520808
<b>Analysis Batch:460-521044</b>					
LCS 460-520339/2-A	Lab Control Sample	T	Water	8081B	460-520339
LCSD 460-520339/3-A	Lab Control Sample Duplicate	T	Water	8081B	460-520339
MB 460-520339/1-A	Method Blank	T	Water	8081B	460-520339
460-156390-8	EB-001	T	Water	8081B	460-520339
<b>Analysis Batch:460-521047</b>					
LCS 460-520489/2-A	Lab Control Sample	T	Solid	8081B	460-520489
MB 460-520489/1-A	Method Blank	T	Solid	8081B	460-520489
460-156204-A-2-M MS	Matrix Spike	T	Solid	8081B	460-520489
460-156204-A-2-R MSD	Matrix Spike Duplicate	T	Solid	8081B	460-520489
460-156390-1	SB-001 (11'-13')	T	Solid	8081B	460-520489
460-156390-2	SB-002 (6'-8')	T	Solid	8081B	460-520489
460-156390-3	SB-003 (8'-10')	T	Solid	8081B	460-520489
460-156390-4	SB-004 (2'-4')	T	Solid	8081B	460-520489
460-156390-5	SB-004 (20'-22')	T	Solid	8081B	460-520489
460-156390-6	SB-005 (2'-4')	T	Solid	8081B	460-520489
460-156390-7	DUP-001	T	Solid	8081B	460-520489

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-521090</b>					
LCS 460-521090/2-A	Lab Control Sample	T	Water	7470A	
MB 460-521090/1-A	Method Blank	T	Water	7470A	
460-156390-8	EB-001	T	Water	7470A	
460-156444-H-5-B DU	Duplicate	T	Water	7470A	
460-156444-H-5-C MS	Matrix Spike	T	Water	7470A	
<b>Analysis Batch:460-521190</b>					
LCS 460-521090/2-A	Lab Control Sample	T	Water	7470A	460-521090
MB 460-521090/1-A	Method Blank	T	Water	7470A	460-521090
460-156390-8	EB-001	T	Water	7470A	460-521090
460-156444-H-5-B DU	Duplicate	T	Water	7470A	460-521090
460-156444-H-5-C MS	Matrix Spike	T	Water	7470A	460-521090
<b>Prep Batch: 460-521332</b>					
LCSSRM 460-521332/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	
MB 460-521332/1-A	Method Blank	T	Solid	7471B	
460-156361-A-25-D DU	Duplicate	T	Solid	7471B	
460-156361-D-25-B MS	Matrix Spike	T	Solid	7471B	
460-156390-1	SB-001 (11'-13')	T	Solid	7471B	
460-156390-2	SB-002 (6'-8')	T	Solid	7471B	
460-156390-3	SB-003 (8'-10')	T	Solid	7471B	
460-156390-4	SB-004 (2'-4')	T	Solid	7471B	
460-156390-5	SB-004 (20'-22')	T	Solid	7471B	
460-156390-6	SB-005 (2'-4')	T	Solid	7471B	
460-156390-7	DUP-001	T	Solid	7471B	
<b>Analysis Batch:460-521461</b>					
LCSSRM 460-521332/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	460-521332
MB 460-521332/1-A	Method Blank	T	Solid	7471B	460-521332
460-156361-A-25-D DU	Duplicate	T	Solid	7471B	460-521332
460-156361-D-25-B MS	Matrix Spike	T	Solid	7471B	460-521332
460-156390-1	SB-001 (11'-13')	T	Solid	7471B	460-521332
460-156390-2	SB-002 (6'-8')	T	Solid	7471B	460-521332
460-156390-3	SB-003 (8'-10')	T	Solid	7471B	460-521332
460-156390-4	SB-004 (2'-4')	T	Solid	7471B	460-521332
460-156390-5	SB-004 (20'-22')	T	Solid	7471B	460-521332
460-156390-6	SB-005 (2'-4')	T	Solid	7471B	460-521332
460-156390-7	DUP-001	T	Solid	7471B	460-521332



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-522104</b>					
LCSSRM 460-522104/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-522104/1-A ^2	Method Blank	T	Solid	3050B	
460-156390-1	SB-001 (11'-13')	T	Solid	3050B	
460-156390-1DU	Duplicate	T	Solid	3050B	
460-156390-1MS	Matrix Spike	T	Solid	3050B	
460-156390-2	SB-002 (6'-8')	T	Solid	3050B	
460-156390-3	SB-003 (8'-10')	T	Solid	3050B	
460-156390-4	SB-004 (2'-4')	T	Solid	3050B	
460-156390-5	SB-004 (20'-22')	T	Solid	3050B	
460-156390-6	SB-005 (2'-4')	T	Solid	3050B	
460-156390-7	DUP-001	T	Solid	3050B	
<b>Prep Batch: 460-522114</b>					
460-156390-8	EB-001	T	Water	3010A	
<b>Analysis Batch:460-522179</b>					
LCSSRM 460-522104/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-522104
MB 460-522104/1-A ^2	Method Blank	T	Solid	6010C	460-522104
460-156390-1	SB-001 (11'-13')	T	Solid	6010C	460-522104
460-156390-1DU	Duplicate	T	Solid	6010C	460-522104
460-156390-1MS	Matrix Spike	T	Solid	6010C	460-522104
460-156390-2	SB-002 (6'-8')	T	Solid	6010C	460-522104
460-156390-3	SB-003 (8'-10')	T	Solid	6010C	460-522104
460-156390-4	SB-004 (2'-4')	T	Solid	6010C	460-522104
460-156390-5	SB-004 (20'-22')	T	Solid	6010C	460-522104
460-156390-6	SB-005 (2'-4')	T	Solid	6010C	460-522104
460-156390-7	DUP-001	T	Solid	6010C	460-522104
<b>Analysis Batch:460-523061</b>					
460-156390-8	EB-001	T	Water	6020A	460-522114

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:460-521420</b>					
460-156390-1	SB-001 (11'-13')	T	Solid	Moisture	
460-156390-2	SB-002 (6'-8')	T	Solid	Moisture	
460-156390-3	SB-003 (8'-10')	T	Solid	Moisture	
460-156390-4	SB-004 (2'-4')	T	Solid	Moisture	
460-156390-5	SB-004 (20'-22')	T	Solid	Moisture	
460-156390-5MS	Matrix Spike	T	Solid	Moisture	
460-156390-5MSD	Matrix Spike Duplicate	T	Solid	Moisture	
460-156390-6	SB-005 (2'-4')	T	Solid	Moisture	
460-156390-7	DUP-001	T	Solid	Moisture	
460-156464-C-4 DU	Duplicate	T	Solid	Moisture	

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Surrogate Recovery Report

#### 8260C Volatile Organic Compounds by GC/MS

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
460-156390-1	SB-001 (11'-13')	91	114	100	99
460-156390-2	SB-002 (6'-8')	90	115	102	97
460-156390-3	SB-003 (8'-10')	122	80	115	104
460-156390-4	SB-004 (2'-4')	90	117	101	99
460-156390-5	SB-004 (20'-22')	99	115	106	96
460-156390-6	SB-005 (2'-4')	96	116	106	101
460-156390-7	DUP-001	95	118	101	99
MB 460-520812/7		84	115	96	99
MB 460-520984/7		80	126	90	88
LCS 460-520812/3		89	102	97	103
LCS 460-520984/3		78	109	90	100
LCSD 460-520812/4		88	109	97	105
LCSD 460-520984/4		78	116	87	97

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	78-135
BFB = 4-Bromofluorobenzene	67-126
DBFM = Dibromofluoromethane (Surr)	61-149
TOL = Toluene-d8 (Surr)	73-121



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Surrogate Recovery Report

#### 8260C Volatile Organic Compounds by GC/MS

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
460-156390-8	EB-001	94	96	92	100
460-156390-9	Trip Blank	101	105	98	111
MB 460-522684/9		92	95	92	100
LCS 460-522684/3		99	109	100	111
LCSD 460-522684/4		95	102	94	104

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
BFB = 4-Bromofluorobenzene	77-124
DBFM = Dibromofluoromethane (Surr)	72-131
TOL = Toluene-d8 (Surr)	80-120



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Surrogate Recovery Report

#### 8270D Semivolatile Organic Compounds (GC/MS)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	TBP %Rec	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec
460-156390-1	SB-001 (11'-13')	49	61	52	58	52	84
460-156390-2	SB-002 (6'-8')	45	74	63	69	61	90
460-156390-3	SB-003 (8'-10')	60	79	64	75	69	90
460-156390-4	SB-004 (2'-4')	50	61	54	56	55	75
460-156390-5	SB-004 (20'-22')	85	79	74	78	73	84
460-156390-6	SB-005 (2'-4')	78	73	69	71	65	81
460-156390-7	DUP-001	42	76	70	74	66	87
MB 460-520592/1-A		91	88	80	83	76	91
MB 460-520594/1-A		91	83	83	83	76	81
LCS 460-520592/2-A		101	98X	84	96X	86	97
LCS 460-520592/3-A		102	99X	88	94	92X	99
LCS 460-520594/2-A		115X	98X	101X	96X	99X	94
LCS 460-520594/3-A		107X	98X	98X	97X	92X	95
460-156390-5 MS	SB-004 (20'-22') MS	88	74	71	71	71	79
460-155982-B-32-D MS		65	63	51	58	55	65
460-156390-5 MSD	SB-004 (20'-22') MSD	85	71	70	70	70	76
460-155982-B-32-E MSD		72	64	48	54	51	73

Surrogate	Acceptance Limits
TBP = 2,4,6-Tribromophenol (Surr)	10-103
FBP = 2-Fluorobiphenyl	38-95
2FP = 2-Fluorophenol (Surr)	25-92
NBZ = Nitrobenzene-d5 (Surr)	37-94
PHL = Phenol-d5 (Surr)	32-91
TPHL = Terphenyl-d14 (Surr)	24-109



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Surrogate Recovery Report

#### 8270D Semivolatile Organic Compounds (GC/MS)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	TBP %Rec	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec
460-156390-8	EB-001	121	112X	42	107	26	86

Surrogate	Acceptance Limits
TBP = 2,4,6-Tribromophenol (Surr)	26-139
FBP = 2-Fluorobiphenyl	45-107
2FP = 2-Fluorophenol (Surr)	25-58
NBZ = Nitrobenzene-d5 (Surr)	51-108
PHL = Phenol-d5 (Surr)	14-39
TPHL = Terphenyl-d14 (Surr)	40-148



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Surrogate Recovery Report

#### 8081B Organochlorine Pesticides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCBP1 %Rec	DCBP2 %Rec	TCX1 %Rec	TCX2 %Rec
460-156390-1	SB-001 (11'-13')	97	89	98	90
460-156390-2	SB-002 (6'-8')	92	83	93	87
460-156390-3	SB-003 (8'-10')	88	83	90	88
460-156390-4	SB-004 (2'-4')	80	73	80	74
460-156390-5	SB-004 (20'-22')	88	81	89	82
460-156390-6	SB-005 (2'-4')	75	73	77	74
460-156390-7	DUP-001	82	76	84	81
MB 460-520489/1-A		82	80	87	82
LCS 460-520489/2-A		87	81	95	84
460-156204-A-2-M MS		87	81	79	80
460-156204-A-2-R MSD		82	79	90	79

Surrogate

Acceptance Limits

DCBP = DCB Decachlorobiphenyl

69-150

TCX = Tetrachloro-m-xylene

74-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Surrogate Recovery Report

#### 8081B Organochlorine Pesticides (GC)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCBP1 %Rec	DCBP2 %Rec	TCX1 %Rec	TCX2 %Rec
460-156390-8	EB-001	63	56	64	60
MB 460-520339/1-A		78	76	72	74
LCS 460-520339/2-A		74	71	72	68
LCSD 460-520339/3-A		70	75	69	67

##### Surrogate

##### Acceptance Limits

DCBP = DCB Decachlorobiphenyl

10-150

TCX = Tetrachloro-m-xylene

12-136



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Surrogate Recovery Report

#### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCBP1	DCBP2
		%Rec	%Rec
460-156390-1	SB-001 (11'-13')	128	148
460-156390-2	SB-002 (6'-8')	114	124
460-156390-3	SB-003 (8'-10')	116	124
460-156390-4	SB-004 (2'-4')	109	118
460-156390-5	SB-004 (20'-22')	106	115
460-156390-6	SB-005 (2'-4')	99	106
460-156390-7	DUP-001	104	118
MB 460-520503/1-A		109	125
LCS 460-520503/2-A		104	117
460-156204-A-2-O MS		118	142
460-156204-A-2-P MSD		107	123

Surrogate

Acceptance Limits

DCBP = DCB Decachlorobiphenyl

53-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Surrogate Recovery Report

#### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCBP1	DCBP2
		%Rec	%Rec
460-156390-8	EB-001	77	75
MB 460-520346/1-A		100	103
LCS 460-520346/2-A		96	109
460-156240-F-13-A MS		62	69
460-156240-E-13-A MSD		56	57

Surrogate

Acceptance Limits

DCBP = DCB Decachlorobiphenyl

10-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Surrogate Recovery Report

#### 8151A Herbicides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCPAA1	DCPAA2
		%Rec	%Rec
460-156390-1	SB-001 (11'-13')	123	142
460-156390-2	SB-002 (6'-8')	123	132
460-156390-3	SB-003 (8'-10')	124	137
460-156390-4	SB-004 (2'-4')	107	137
460-156390-5	SB-004 (20'-22')	129	135
460-156390-6	SB-005 (2'-4')	131	134
460-156390-7	DUP-001	121	138
MB 460-520808/1-A		131	131
LCS 460-520808/2-A		145	150
460-156356-A-21-C		141	154X
MS			
460-156356-A-21-D		142	155X
MSD			

Surrogate

Acceptance Limits

DCPAA = 2,4-Dichlorophenylacetic acid

80-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Surrogate Recovery Report

#### 8151A Herbicides (GC)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPAA1	DCPAA2
		%Rec	%Rec
460-156390-8	EB-001	105	103
MB 460-520804/1-A		101	100
LCS 460-520804/2-A		125	110
LCSD 460-520804/3-A		129	116

Surrogate

Acceptance Limits

DCPAA = 2,4-Dichlorophenylacetic acid

54-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520812

### Method: 8260C Preparation: N/A

Lab Sample ID: MB 460-520812/7  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0810  
Prep Date: N/A  
Leach Date: N/A

Analysis Batch: 460-520812  
Prep Batch: N/A  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CVOAMS2  
Lab File ID: B30454.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.0010	U	0.00023	0.0010
1,1,2,2-Tetrachloroethane	0.0010	U	0.00021	0.0010
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.00030	0.0010
1,1,2-Trichloroethane	0.0010	U	0.00018	0.0010
1,1-Dichloroethane	0.0010	U	0.00021	0.0010
1,1-Dichloroethene	0.0010	U	0.00023	0.0010
1,2,3-Trichlorobenzene	0.0010	U	0.00018	0.0010
1,2,4-Trichlorobenzene	0.0010	U	0.000092	0.0010
1,2-Dibromo-3-Chloropropane	0.0010	U	0.00046	0.0010
1,2-Dichlorobenzene	0.0010	U	0.00014	0.0010
1,2-Dichloroethane	0.0010	U	0.00030	0.0010
1,2-Dichloropropane	0.0010	U	0.00042	0.0010
1,3-Dichlorobenzene	0.0010	U	0.00016	0.0010
1,4-Dichlorobenzene	0.0010	U	0.00010	0.0010
1,4-Dioxane	0.020	U	0.0092	0.020
2-Butanone (MEK)	0.0050	U	0.0011	0.0050
2-Hexanone	0.0050	U	0.00078	0.0050
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.00066	0.0050
Acetone	0.0050	U	0.0038	0.0050
Benzene	0.0010	U	0.00026	0.0010
Bromoform	0.0010	U	0.00043	0.0010
Bromomethane	0.0010	U	0.00047	0.0010
Carbon disulfide	0.0010	U	0.00027	0.0010
Carbon tetrachloride	0.0010	U	0.00018	0.0010
Chlorobenzene	0.0010	U	0.00018	0.0010
Chlorobromomethane	0.0010	U	0.00028	0.0010
Chlorodibromomethane	0.0010	U	0.00019	0.0010
Chloroethane	0.0010	U	0.00052	0.0010
Chloroform	0.0010	U	0.00032	0.0010
Chloromethane	0.0010	U	0.00044	0.0010
cis-1,2-Dichloroethene	0.0010	U	0.00015	0.0010
cis-1,3-Dichloropropene	0.0010	U	0.00027	0.0010
Cyclohexane	0.0010	U	0.00022	0.0010
Dichlorobromomethane	0.0010	U	0.00026	0.0010
Dichlorodifluoromethane	0.0010	U	0.00034	0.0010
Ethylbenzene	0.0010	U	0.00020	0.0010
Ethylene Dibromide	0.0010	U	0.00018	0.0010
Isopropylbenzene	0.0010	U	0.00013	0.0010
Methyl acetate	0.0050	U	0.0043	0.0050
Methyl tert-butyl ether	0.0010	U	0.00013	0.0010
Methylcyclohexane	0.0010	U	0.00016	0.0010
Methylene Chloride	0.000172	J	0.00016	0.0010
m-Xylene & p-Xylene	0.0010	U	0.00017	0.0010
o-Xylene	0.0010	U	0.000095	0.0010
Styrene	0.0010	U	0.00012	0.0010



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520812

Method: 8260C  
Preparation: N/A

Lab Sample ID: MB 460-520812/7  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0810  
Prep Date: N/A  
Leach Date: N/A

Analysis Batch: 460-520812  
Prep Batch: N/A  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CVOAMS2  
Lab File ID: B30454.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	0.0010	U	0.00014	0.0010
Toluene	0.0010	U	0.00063	0.0010
trans-1,2-Dichloroethene	0.0010	U	0.00025	0.0010
trans-1,3-Dichloropropene	0.0010	U	0.00027	0.0010
Trichloroethene	0.0010	U	0.00014	0.0010
Trichlorofluoromethane	0.0010	U	0.00041	0.0010
Vinyl chloride	0.0010	U	0.00055	0.0010

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84	78 - 135
4-Bromofluorobenzene	115	67 - 126
Dibromofluoromethane (Surr)	96	61 - 149
Toluene-d8 (Surr)	99	73 - 121



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-520812

Method: 8260C

Preparation: N/A

LCS Lab Sample ID: LCS 460-520812/3	Analysis Batch: 460-520812	Instrument ID: CVOAMS2
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: B30450.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/20/2018 0635	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-520812/4	Analysis Batch: 460-520812	Instrument ID: CVOAMS2
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: B30451.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/20/2018 0658	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	100	94	80 - 125	6	30		
1,1,2,2-Tetrachloroethane	96	87	72 - 131	10	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	99	93	78 - 132	7	30		
1,1,2-Trichloroethane	94	94	76 - 124	0	30		
1,1-Dichloroethane	98	91	80 - 124	7	30		
1,1-Dichloroethene	93	90	79 - 132	3	30		
1,2,3-Trichlorobenzene	111	98	75 - 123	12	30		
1,2,4-Trichlorobenzene	114	113	74 - 124	1	30		
1,2-Dibromo-3-Chloropropane	106	107	65 - 129	1	30		
1,2-Dichlorobenzene	100	95	80 - 121	5	30		
1,2-Dichloroethane	91	85	68 - 120	6	30		
1,2-Dichloropropane	94	92	77 - 124	2	30		
1,3-Dichlorobenzene	96	93	79 - 124	3	30		
1,4-Dichlorobenzene	95	89	79 - 121	6	30		
1,4-Dioxane	127	94	67 - 150	30	30		
2-Butanone (MEK)	94	97	61 - 140	3	30		
2-Hexanone	73	71	78 - 120	2	30	*	*
4-Methyl-2-pentanone (MIBK)	96	93	80 - 120	3	30		
Acetone	93	101	75 - 120	8	30		
Benzene	98	97	75 - 127	1	30		
Bromoform	85	87	19 - 150	2	30		
Bromomethane	87	83	59 - 136	5	30		
Carbon disulfide	94	89	74 - 130	6	30		
Carbon tetrachloride	97	89	77 - 138	8	30		
Chlorobenzene	99	94	80 - 120	5	30		
Chlorobromomethane	94	87	80 - 125	8	30		
Chlorodibromomethane	94	88	67 - 143	7	30		
Chloroethane	98	90	50 - 139	9	30		
Chloroform	94	89	80 - 122	6	30		
Chloromethane	92	87	66 - 128	5	30		
cis-1,2-Dichloroethene	101	92	80 - 123	9	30		
cis-1,3-Dichloropropene	97	92	75 - 124	6	30		
Cyclohexane	101	98	67 - 135	2	30		
Dichlorobromomethane	94	88	76 - 129	7	30		
Dichlorodifluoromethane	88	86	72 - 127	3	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-520812

Method: 8260C

Preparation: N/A

LCS Lab Sample ID: LCS 460-520812/3	Analysis Batch: 460-520812	Instrument ID: CVOAMS2
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: B30450.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/20/2018 0635	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-520812/4	Analysis Batch: 460-520812	Instrument ID: CVOAMS2
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: B30451.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/20/2018 0658	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethylbenzene	99	97	79 - 124	2	30		
Ethylene Dibromide	91	96	80 - 122	6	30		
Isopropylbenzene	104	101	80 - 125	3	30		
Methyl acetate	83	72	73 - 123	14	30		*
Methyl tert-butyl ether	95	88	80 - 120	8	30		
Methylcyclohexane	102	99	71 - 137	4	30		
Methylene Chloride	94	88	79 - 128	6	30		
m-Xylene & p-Xylene	100	99	79 - 121	1	30		
o-Xylene	94	96	79 - 123	2	30		
Styrene	103	98	78 - 123	5	30		
Tetrachloroethene	97	93	73 - 130	4	30		
Toluene	98	97	75 - 122	1	30		
trans-1,2-Dichloroethene	99	93	80 - 129	6	30		
trans-1,3-Dichloropropene	96	90	72 - 121	6	30		
Trichloroethene	95	91	79 - 122	4	30		
Trichlorofluoromethane	101	93	68 - 136	8	30		
Vinyl chloride	96	91	70 - 134	5	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	88	78 - 135
4-Bromofluorobenzene	102	109	67 - 126
Dibromofluoromethane (Surr)	97	97	61 - 149
Toluene-d8 (Surr)	103	105	73 - 121



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520984

### Method: 8260C Preparation: N/A

Lab Sample ID: MB 460-520984/7  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/21/2018 0827  
Prep Date: N/A  
Leach Date: N/A

Analysis Batch: 460-520984  
Prep Batch: N/A  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CVOAMS2  
Lab File ID: B30509.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.0010	U	0.00023	0.0010
1,1,2,2-Tetrachloroethane	0.0010	U	0.00021	0.0010
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.00030	0.0010
1,1,2-Trichloroethane	0.0010	U	0.00018	0.0010
1,1-Dichloroethane	0.0010	U	0.00021	0.0010
1,1-Dichloroethene	0.0010	U	0.00023	0.0010
1,2,3-Trichlorobenzene	0.0010	U	0.00018	0.0010
1,2,4-Trichlorobenzene	0.0010	U	0.000092	0.0010
1,2-Dibromo-3-Chloropropane	0.0010	U	0.00046	0.0010
1,2-Dichlorobenzene	0.0010	U	0.00014	0.0010
1,2-Dichloroethane	0.0010	U	0.00030	0.0010
1,2-Dichloropropane	0.0010	U	0.00042	0.0010
1,3-Dichlorobenzene	0.0010	U	0.00016	0.0010
1,4-Dichlorobenzene	0.0010	U	0.00010	0.0010
1,4-Dioxane	0.020	U	0.0092	0.020
2-Butanone (MEK)	0.0050	U	0.0011	0.0050
2-Hexanone	0.0050	U	0.00078	0.0050
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.00066	0.0050
Acetone	0.0050	U	0.0038	0.0050
Benzene	0.0010	U	0.00026	0.0010
Bromoform	0.0010	U	0.00043	0.0010
Bromomethane	0.0010	U	0.00047	0.0010
Carbon disulfide	0.0010	U	0.00027	0.0010
Carbon tetrachloride	0.0010	U	0.00018	0.0010
Chlorobenzene	0.0010	U	0.00018	0.0010
Chlorobromomethane	0.0010	U	0.00028	0.0010
Chlorodibromomethane	0.0010	U	0.00019	0.0010
Chloroethane	0.0010	U	0.00052	0.0010
Chloroform	0.0010	U	0.00032	0.0010
Chloromethane	0.0010	U	0.00044	0.0010
cis-1,2-Dichloroethene	0.0010	U	0.00015	0.0010
cis-1,3-Dichloropropene	0.0010	U	0.00027	0.0010
Cyclohexane	0.0010	U	0.00022	0.0010
Dichlorobromomethane	0.0010	U	0.00026	0.0010
Dichlorodifluoromethane	0.0010	U	0.00034	0.0010
Ethylbenzene	0.0010	U	0.00020	0.0010
Ethylene Dibromide	0.0010	U	0.00018	0.0010
Isopropylbenzene	0.0010	U	0.00013	0.0010
Methyl acetate	0.0050	U	0.0043	0.0050
Methyl tert-butyl ether	0.0010	U	0.00013	0.0010
Methylcyclohexane	0.0010	U	0.00016	0.0010
Methylene Chloride	0.000265	J	0.00016	0.0010
m-Xylene & p-Xylene	0.0010	U	0.00017	0.0010
o-Xylene	0.0010	U	0.000095	0.0010
Styrene	0.0010	U	0.00012	0.0010



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520984

Method: 8260C  
Preparation: N/A

Lab Sample ID: MB 460-520984/7  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/21/2018 0827  
Prep Date: N/A  
Leach Date: N/A

Analysis Batch: 460-520984  
Prep Batch: N/A  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CVOAMS2  
Lab File ID: B30509.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	0.0010	U	0.00014	0.0010
Toluene	0.0010	U	0.00063	0.0010
trans-1,2-Dichloroethene	0.0010	U	0.00025	0.0010
trans-1,3-Dichloropropene	0.0010	U	0.00027	0.0010
Trichloroethene	0.0010	U	0.00014	0.0010
Trichlorofluoromethane	0.0010	U	0.00041	0.0010
Vinyl chloride	0.0010	U	0.00055	0.0010

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	80	78 - 135
4-Bromofluorobenzene	126	67 - 126
Dibromofluoromethane (Surr)	90	61 - 149
Toluene-d8 (Surr)	88	73 - 121



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-520984

Method: 8260C

Preparation: N/A

LCS Lab Sample ID: LCS 460-520984/3	Analysis Batch: 460-520984	Instrument ID: CVOAMS2
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: B30505.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/21/2018 0627	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-520984/4	Analysis Batch: 460-520984	Instrument ID: CVOAMS2
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: B30506.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/21/2018 0651	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	105	104	80 - 125	1	30		
1,1,2,2-Tetrachloroethane	97	107	72 - 131	10	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	121	118	78 - 132	2	30		
1,1,2-Trichloroethane	101	108	76 - 124	7	30		
1,1-Dichloroethane	108	105	80 - 124	3	30		
1,1-Dichloroethene	110	111	79 - 132	2	30		
1,2,3-Trichlorobenzene	108	111	75 - 123	3	30		
1,2,4-Trichlorobenzene	118	116	74 - 124	2	30		
1,2-Dibromo-3-Chloropropane	113	117	65 - 129	4	30		
1,2-Dichlorobenzene	98	106	80 - 121	8	30		
1,2-Dichloroethane	99	98	68 - 120	2	30		
1,2-Dichloropropane	101	103	77 - 124	2	30		
1,3-Dichlorobenzene	98	101	79 - 124	3	30		
1,4-Dichlorobenzene	97	99	79 - 121	2	30		
1,4-Dioxane	122	120	67 - 150	2	30		
2-Butanone (MEK)	100	93	61 - 140	7	30		
2-Hexanone	78	75	78 - 120	3	30		*
4-Methyl-2-pentanone (MIBK)	106	101	80 - 120	5	30		
Acetone	112	106	75 - 120	5	30		
Benzene	110	111	75 - 127	1	30		
Bromoform	86	90	19 - 150	5	30		
Bromomethane	92	99	59 - 136	7	30		
Carbon disulfide	113	114	74 - 130	2	30		
Carbon tetrachloride	101	99	77 - 138	1	30		
Chlorobenzene	102	103	80 - 120	1	30		
Chlorobromomethane	103	99	80 - 125	4	30		
Chlorodibromomethane	94	96	67 - 143	3	30		
Chloroethane	99	103	50 - 139	4	30		
Chloroform	103	109	80 - 122	5	30		
Chloromethane	106	110	66 - 128	4	30		
cis-1,2-Dichloroethene	108	109	80 - 123	0	30		
cis-1,3-Dichloropropene	103	105	75 - 124	2	30		
Cyclohexane	112	114	67 - 135	1	30		
Dichlorobromomethane	95	101	76 - 129	7	30		
Dichlorodifluoromethane	105	113	72 - 127	7	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-520984

Method: 8260C

Preparation: N/A

LCS Lab Sample ID: LCS 460-520984/3	Analysis Batch: 460-520984	Instrument ID: CVOAMS2
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: B30505.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/21/2018 0627	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-520984/4	Analysis Batch: 460-520984	Instrument ID: CVOAMS2
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: B30506.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/21/2018 0651	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethylbenzene	107	105	79 - 124	1	30		
Ethylene Dibromide	94	104	80 - 122	10	30		
Isopropylbenzene	112	111	80 - 125	2	30		
Methyl acetate	94	99	73 - 123	5	30		
Methyl tert-butyl ether	105	104	80 - 120	0	30		
Methylcyclohexane	106	107	71 - 137	0	30		
Methylene Chloride	111	111	79 - 128	0	30		
m-Xylene & p-Xylene	109	108	79 - 121	1	30		
o-Xylene	103	103	79 - 123	0	30		
Styrene	108	105	78 - 123	3	30		
Tetrachloroethene	100	101	73 - 130	1	30		
Toluene	106	108	75 - 122	3	30		
trans-1,2-Dichloroethene	114	112	80 - 129	2	30		
trans-1,3-Dichloropropene	97	103	72 - 121	5	30		
Trichloroethene	100	100	79 - 122	0	30		
Trichlorofluoromethane	106	117	68 - 136	10	30		
Vinyl chloride	108	113	70 - 134	4	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	78	78	78 - 135
4-Bromofluorobenzene	109	116	67 - 126
Dibromofluoromethane (Surr)	90	87	61 - 149
Toluene-d8 (Surr)	100	97	73 - 121



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-522684

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 460-522684/9  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/26/2018 0225  
Prep Date: 05/26/2018 0225  
Leach Date: N/A

Analysis Batch: 460-522684  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CVOAMS13  
Lab File ID: P45770.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	1.56	J	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-522684

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 460-522684/9  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/26/2018 0225  
Prep Date: 05/26/2018 0225  
Leach Date: N/A

Analysis Batch: 460-522684  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CVOAMS13  
Lab File ID: P45770.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	1.0	U	0.12	1.0
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	74 - 132
4-Bromofluorobenzene	95	77 - 124
Dibromofluoromethane (Surr)	92	72 - 131
Toluene-d8 (Surr)	100	80 - 120



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522684

Method: 8260C

Preparation: 5030C

LCS Lab Sample ID: LCS 460-522684/3	Analysis Batch: 460-522684	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P45764.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/25/2018 2318	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/25/2018 2318		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-522684/4	Analysis Batch: 460-522684	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P45765.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/25/2018 2356	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/25/2018 2356		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	92	87	75 - 125	5	30		
1,1,2,2-Tetrachloroethane	110	103	74 - 120	7	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	95	90	59 - 150	5	30		
1,1,2-Trichloroethane	114	108	78 - 120	5	30		
1,1-Dichloroethane	107	101	77 - 123	5	30		
1,1-Dichloroethene	93	91	74 - 123	1	30		
1,2,3-Trichlorobenzene	118	112	78 - 131	5	30		
1,2,4-Trichlorobenzene	117	111	80 - 124	6	30		
1,2-Dibromo-3-Chloropropane	93	91	55 - 134	3	30		
1,2-Dichlorobenzene	115	109	80 - 120	6	30		
1,2-Dichloroethane	100	97	76 - 121	3	30		
1,2-Dichloropropane	107	100	77 - 123	6	30		
1,3-Dichlorobenzene	113	107	80 - 120	6	30		
1,4-Dichlorobenzene	109	103	80 - 120	5	30		
1,4-Dioxane	119	114	10 - 150	4	30		
2-Butanone (MEK)	97	92	64 - 120	6	30		
2-Hexanone	113	109	71 - 125	4	30		
4-Methyl-2-pentanone (MIBK)	117	110	78 - 124	6	30		
Acetone	100	96	39 - 150	5	30		
Benzene	117	111	77 - 121	6	30		
Bromoform	91	89	53 - 120	2	30		
Bromomethane	80	76	10 - 150	4	30		
Carbon disulfide	86	83	69 - 133	4	30		
Carbon tetrachloride	88	83	70 - 132	6	30		
Chlorobenzene	114	107	80 - 120	6	30		
Chlorobromomethane	105	100	77 - 127	4	30		
Chlorodibromomethane	102	96	73 - 120	7	30		
Chloroethane	97	94	52 - 150	4	30		
Chloroform	102	97	80 - 120	5	30		
Chloromethane	106	105	56 - 131	1	30		
cis-1,2-Dichloroethene	99	98	80 - 120	0	30		
cis-1,3-Dichloropropene	114	107	77 - 120	6	30		
Cyclohexane	99	95	56 - 150	5	30		
Dichlorobromomethane	97	91	76 - 120	6	30		
Dichlorodifluoromethane	98	95	50 - 131	3	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522684

Method: 8260C

Preparation: 5030C

LCS Lab Sample ID: LCS 460-522684/3	Analysis Batch: 460-522684	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P45764.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/25/2018 2318	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/25/2018 2318		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-522684/4	Analysis Batch: 460-522684	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P45765.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/25/2018 2356	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/25/2018 2356		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethylbenzene	111	104	80 - 120	6	30		
Ethylene Dibromide	112	102	80 - 120	9	30		
Isopropylbenzene	109	102	80 - 123	6	30		
Methyl acetate	111	97	66 - 144	14	30		
Methyl tert-butyl ether	100	96	79 - 122	5	30		
Methylcyclohexane	94	89	61 - 145	6	30		
Methylene Chloride	98	95	77 - 123	3	30		
m-Xylene & p-Xylene	113	106	80 - 120	6	30		
o-Xylene	111	107	80 - 120	5	30		
Styrene	114	106	80 - 120	7	30		
Tetrachloroethene	112	107	78 - 122	5	30		
Toluene	111	104	80 - 120	6	30		
trans-1,2-Dichloroethene	92	89	79 - 120	3	30		
trans-1,3-Dichloropropene	111	105	76 - 120	5	30		
Trichloroethene	95	92	77 - 120	4	30		
Trichlorofluoromethane	105	100	71 - 143	5	30		
Vinyl chloride	99	94	62 - 138	5	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	95	74 - 132
4-Bromofluorobenzene	109	102	77 - 124
Dibromofluoromethane (Surr)	100	94	72 - 131
Toluene-d8 (Surr)	111	104	80 - 120



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520592

### Method: 8270D Preparation: 3546

Lab Sample ID: MB 460-520592/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0247  
Prep Date: 05/19/2018 0659  
Leach Date: N/A

Analysis Batch: 460-520783  
Prep Batch: 460-520592  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CBNAMS5  
Lab File ID: X268976.d  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	0.33	U	0.0044	0.33
1,2,4,5-Tetrachlorobenzene	0.33	U	0.0043	0.33
2,2'-oxybis[1-chloropropane]	0.33	U	0.0060	0.33
2,3,4,6-Tetrachlorophenol	0.33	U	0.022	0.33
2,4,5-Trichlorophenol	0.33	U	0.011	0.33
2,4,6-Trichlorophenol	0.13	U	0.017	0.13
2,4-Dichlorophenol	0.13	U	0.0070	0.13
2,4-Dimethylphenol	0.33	U	0.015	0.33
2,4-Dinitrophenol	0.27	U	0.16	0.27
2,4-Dinitrotoluene	0.067	U	0.017	0.067
2,6-Dinitrotoluene	0.067	U	0.011	0.067
2-Chloronaphthalene	0.33	U	0.015	0.33
2-Chlorophenol	0.33	U	0.0046	0.33
2-Methylnaphthalene	0.33	U	0.0041	0.33
2-Methylphenol	0.33	U	0.0053	0.33
2-Nitroaniline	0.33	U	0.012	0.33
2-Nitrophenol	0.33	U	0.011	0.33
3,3'-Dichlorobenzidine	0.13	U	0.050	0.13
3-Nitroaniline	0.33	U	0.018	0.33
4,6-Dinitro-2-methylphenol	0.27	U	0.054	0.27
4-Bromophenyl phenyl ether	0.33	U	0.0043	0.33
4-Chloro-3-methylphenol	0.33	U	0.0055	0.33
4-Chloroaniline	0.33	U	0.023	0.33
4-Chlorophenyl phenyl ether	0.33	U	0.0052	0.33
4-Methylphenol	0.33	U	0.0056	0.33
4-Nitroaniline	0.33	U	0.012	0.33
4-Nitrophenol	0.67	U	0.054	0.67
Acenaphthene	0.33	U	0.024	0.33
Acenaphthylene	0.33	U	0.0034	0.33
Acetophenone	0.33	U	0.0053	0.33
Anthracene	0.33	U	0.0037	0.33
Atrazine	0.13	U	0.0083	0.13
Benzaldehyde	0.33	U	0.014	0.33
Benzo[a]anthracene	0.033	U	0.012	0.033
Benzo[a]pyrene	0.033	U	0.0088	0.033
Benzo[b]fluoranthene	0.033	U	0.0086	0.033
Benzo[g,h,i]perylene	0.33	U	0.0098	0.33
Benzo[k]fluoranthene	0.033	U	0.0065	0.033
Bis(2-chloroethoxy)methane	0.33	U	0.011	0.33
Bis(2-chloroethyl)ether	0.033	U	0.0040	0.033
Bis(2-ethylhexyl) phthalate	0.33	U	0.017	0.33
Butyl benzyl phthalate	0.33	U	0.016	0.33
Caprolactam	0.33	U	0.020	0.33
Carbazole	0.33	U	0.0039	0.33
Chrysene	0.33	U	0.0056	0.33



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520592

### Method: 8270D Preparation: 3546

Lab Sample ID: MB 460-520592/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0247  
Prep Date: 05/19/2018 0659  
Leach Date: N/A

Analysis Batch: 460-520783  
Prep Batch: 460-520592  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CBNAMS5  
Lab File ID: X268976.d  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Dibenz(a,h)anthracene	0.033	U	0.014	0.033
Dibenzofuran	0.33	U	0.0046	0.33
Diethyl phthalate	0.33	U	0.0048	0.33
Dimethyl phthalate	0.33	U	0.0040	0.33
Di-n-butyl phthalate	0.33	U	0.058	0.33
Di-n-octyl phthalate	0.33	U	0.018	0.33
Fluoranthene	0.33	U	0.0043	0.33
Fluorene	0.33	U	0.0045	0.33
Hexachlorobenzene	0.033	U	0.0048	0.033
Hexachlorobutadiene	0.067	U	0.0070	0.067
Hexachlorocyclopentadiene	0.33	U	0.029	0.33
Hexachloroethane	0.033	U	0.0051	0.033
Indeno[1,2,3-cd]pyrene	0.033	U	0.013	0.033
Isophorone	0.13	U	0.0087	0.13
Naphthalene	0.33	U	0.0057	0.33
Nitrobenzene	0.033	U	0.0079	0.033
N-Nitrosodi-n-propylamine	0.033	U	0.0053	0.033
N-Nitrosodiphenylamine	0.33	U	0.0063	0.33
Pentachlorophenol	0.27	U	0.068	0.27
Phenanthrene	0.33	U	0.0058	0.33
Phenol	0.33	U	0.0049	0.33
Pyrene	0.33	U	0.0082	0.33

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	91	10 - 103
2-Fluorobiphenyl	88	38 - 95
2-Fluorophenol (Surr)	80	25 - 92
Nitrobenzene-d5 (Surr)	83	37 - 94
Phenol-d5 (Surr)	76	32 - 91
Terphenyl-d14 (Surr)	91	24 - 109



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample - Batch: 460-520592

Method: 8270D

Preparation: 3546

Lab Sample ID:	LCS 460-520592/2-A	Analysis Batch:	460-520783	Instrument ID:	CBNAMS5
Client Matrix:	Solid	Prep Batch:	460-520592	Lab File ID:	X268973.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/20/2018 0134	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/19/2018 0659			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1'-Biphenyl	3.33	3.12	94	64 - 108	
1,2,4,5-Tetrachlorobenzene	3.33	3.13	94	57 - 112	
2,2'-oxybis[1-chloropropane]	3.33	2.53	76	39 - 122	
2,3,4,6-Tetrachlorophenol	3.33	3.12	94	60 - 114	
2,4,5-Trichlorophenol	3.33	3.05	91	60 - 106	
2,4,6-Trichlorophenol	3.33	3.12	94	62 - 110	
2,4-Dichlorophenol	3.33	3.09	93	61 - 103	
2,4-Dimethylphenol	3.33	2.77	83	63 - 101	
2,4-Dinitrophenol	6.67	5.84	88	56 - 122	
2,4-Dinitrotoluene	3.33	3.23	97	66 - 122	
2,6-Dinitrotoluene	3.33	3.24	97	70 - 114	
2-Chloronaphthalene	3.33	3.06	92	63 - 107	
2-Chlorophenol	3.33	2.78	83	62 - 97	
2-Methylnaphthalene	3.33	2.97	89	65 - 104	
2-Methylphenol	3.33	2.62	79	61 - 103	
2-Nitroaniline	3.33	3.22	96	57 - 114	
2-Nitrophenol	3.33	2.98	89	65 - 104	
3,3'-Dichlorobenzidine	3.33	1.46	44	18 - 88	
3-Nitroaniline	3.33	2.02	61	30 - 94	
4,6-Dinitro-2-methylphenol	6.67	5.96	89	67 - 120	
4-Bromophenyl phenyl ether	3.33	3.25	97	59 - 122	
4-Chloro-3-methylphenol	3.33	3.08	92	62 - 111	
4-Chloroaniline	3.33	1.43	43	18 - 94	
4-Chlorophenyl phenyl ether	3.33	3.14	94	66 - 110	
4-Methylphenol	3.33	2.64	79	61 - 105	
4-Nitroaniline	3.33	2.55	77	49 - 118	
4-Nitrophenol	6.67	6.55	98	43 - 141	
Acenaphthene	3.33	3.11	93	62 - 108	
Acenaphthylene	3.33	3.00	90	67 - 107	
Acetophenone	3.33	2.56	77	60 - 109	
Anthracene	3.33	3.13	94	69 - 111	
Benzo[a]anthracene	3.33	2.97	89	68 - 110	
Benzo[a]pyrene	3.33	3.07	92	72 - 115	
Benzo[b]fluoranthene	3.33	3.14	94	69 - 119	
Benzo[g,h,i]perylene	3.33	2.87	86	54 - 128	
Benzo[k]fluoranthene	3.33	3.24	97	70 - 115	
Bis(2-chloroethoxy)methane	3.33	2.95	89	65 - 106	
Bis(2-chloroethyl)ether	3.33	2.65	80	64 - 105	
Bis(2-ethylhexyl) phthalate	3.33	3.16	95	63 - 125	
Butyl benzyl phthalate	3.33	3.25	97	65 - 125	
Carbazole	3.33	3.07	92	66 - 115	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample - Batch: 460-520592

**Method: 8270D**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-520592/2-A	Analysis Batch:	460-520783	Instrument ID:	CBNAMS5
Client Matrix:	Solid	Prep Batch:	460-520592	Lab File ID:	X268973.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/20/2018 0134	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/19/2018 0659			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chrysene	3.33	3.24	97	70 - 111	
Dibenz(a,h)anthracene	3.33	2.88	86	60 - 130	
Dibenzofuran	3.33	3.09	93	67 - 107	
Diethyl phthalate	3.33	3.19	96	66 - 117	
Dimethyl phthalate	3.33	3.16	95	68 - 112	
Di-n-butyl phthalate	3.33	3.10	93	67 - 119	
Di-n-octyl phthalate	3.33	3.28	98	57 - 138	
Fluoranthene	3.33	3.05	91	64 - 114	
Fluorene	3.33	3.06	92	66 - 110	
Hexachlorobenzene	3.33	3.14	94	57 - 128	
Hexachlorobutadiene	3.33	3.19	96	60 - 108	
Hexachlorocyclopentadiene	3.33	2.45	73	50 - 129	
Hexachloroethane	3.33	2.81	84	63 - 99	
Indeno[1,2,3-cd]pyrene	3.33	2.87	86	53 - 137	
Isophorone	3.33	2.85	85	68 - 111	
Naphthalene	3.33	2.94	88	65 - 102	
Nitrobenzene	3.33	2.70	81	66 - 108	
N-Nitrosodi-n-propylamine	3.33	2.68	80	63 - 117	
N-Nitrosodiphenylamine	3.33	3.11	93	65 - 114	
Pentachlorophenol	6.67	6.00	90	56 - 116	
Phenanthrene	3.33	3.08	93	68 - 111	
Phenol	3.33	2.65	80	58 - 103	
Pyrene	3.33	3.20	96	64 - 121	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	101	10 - 103
2-Fluorobiphenyl	98	38 - 95
2-Fluorophenol (Surr)	84	25 - 92
Nitrobenzene-d5 (Surr)	96	37 - 94
Phenol-d5 (Surr)	86	32 - 91
Terphenyl-d14 (Surr)	97	24 - 109



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample - Batch: 460-520592

**Method: 8270D**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-520592/3-A	Analysis Batch:	460-520783	Instrument ID:	CBNAMS5
Client Matrix:	Solid	Prep Batch:	460-520592	Lab File ID:	X268974.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/20/2018 0159	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/19/2018 0659			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Atrazine	6.67	6.92	104	62 - 137	
Benzaldehyde	6.67	6.22	93	52 - 113	
Caprolactam	6.67	6.22	93	53 - 148	
Surrogate	% Rec		Acceptance Limits		
2,4,6-Tribromophenol (Surr)	102		10 - 103		
2-Fluorobiphenyl	99	X	38 - 95		
2-Fluorophenol (Surr)	88		25 - 92		
Nitrobenzene-d5 (Surr)	94		37 - 94		
Phenol-d5 (Surr)	92	X	32 - 91		
Terphenyl-d14 (Surr)	99		24 - 109		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520592

Method: 8270D  
Preparation: 3546

MS Lab Sample ID: 460-155982-B-32-D MS  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0310  
Prep Date: 05/19/2018 0659  
Leach Date: N/A

Analysis Batch: 460-520783  
Prep Batch: 460-520592  
Leach Batch: N/A

Instrument ID: CBNAMS5  
Lab File ID: X268977.d  
Initial Weight/Volume: 15.0123 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

MSD Lab Sample ID: 460-155982-B-32-E MSD  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0334  
Prep Date: 05/19/2018 0659  
Leach Date: N/A

Analysis Batch: 460-520783  
Prep Batch: 460-520592  
Leach Batch: N/A

Instrument ID: CBNAMS5  
Lab File ID: X268978.d  
Initial Weight/Volume: 15.0159 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1'-Biphenyl	57	58	64 - 108	2	30	F1	F1
1,2,4,5-Tetrachlorobenzene	58	57	57 - 112	2	30		
2,2'-oxybis[1-chloropropane]	42	40	39 - 122	5	30		
2,3,4,6-Tetrachlorophenol	55	63	60 - 114	14	30	F1	
2,4,5-Trichlorophenol	55	60	60 - 106	9	30	F1	
2,4,6-Trichlorophenol	54	59	62 - 110	7	30	F1	F1
2,4-Dichlorophenol	56	57	61 - 103	1	30	F1	F1
2,4-Dimethylphenol	51	54	63 - 101	4	30	F1	F1
2,4-Dinitrophenol	40	33	56 - 122	18	30	F1	F1
2,4-Dinitrotoluene	58	63	66 - 122	9	30	F1	F1
2,6-Dinitrotoluene	59	65	70 - 114	10	30	F1	F1
2-Chloronaphthalene	56	58	63 - 107	3	30	F1	F1
2-Chlorophenol	49	46	62 - 97	6	30	F1	F1
2-Methylnaphthalene	54	54	65 - 104	0	30	F1	F1
2-Methylphenol	50	51	61 - 103	0	30	F1	F1
2-Nitroaniline	59	62	57 - 114	6	30		
2-Nitrophenol	52	48	65 - 104	7	30	F1	F1
3,3'-Dichlorobenzidine	33	34	18 - 88	3	30		
3-Nitroaniline	45	50	30 - 94	10	30		
4,6-Dinitro-2-methylphenol	48	50	67 - 120	4	30	F1	F1
4-Bromophenyl phenyl ether	60	69	59 - 122	14	30		
4-Chloro-3-methylphenol	55	61	62 - 111	10	30	F1	F1
4-Chloroaniline	35	35	18 - 94	1	30		
4-Chlorophenyl phenyl ether	58	65	66 - 110	11	30	F1	F1
4-Methylphenol	48	50	61 - 105	4	30	F1	F1
4-Nitroaniline	35	43	49 - 118	18	30	F1	F1
4-Nitrophenol	51	57	43 - 141	12	30		
Acenaphthene	57	61	62 - 108	6	30	F1	F1
Acenaphthylene	55	58	67 - 107	6	30	F1	F1
Acetophenone	47	46	60 - 109	2	30	F1	F1
Anthracene	57	66	69 - 111	15	30	F1	F1
Atrazine	66	77	62 - 137	15	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520592

Method: 8270D  
Preparation: 3546

MS Lab Sample ID: 460-155982-B-32-D MS  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0310  
Prep Date: 05/19/2018 0659  
Leach Date: N/A

Analysis Batch: 460-520783  
Prep Batch: 460-520592  
Leach Batch: N/A

Instrument ID: CBNAMS5  
Lab File ID: X268977.d  
Initial Weight/Volume: 15.0123 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

MSD Lab Sample ID: 460-155982-B-32-E MSD  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0334  
Prep Date: 05/19/2018 0659  
Leach Date: N/A

Analysis Batch: 460-520783  
Prep Batch: 460-520592  
Leach Batch: N/A

Instrument ID: CBNAMS5  
Lab File ID: X268978.d  
Initial Weight/Volume: 15.0159 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzaldehyde	53	52	52 - 113	3	30		
Benzo[a]anthracene	55	62	68 - 110	11	30	F1	F1
Benzo[a]pyrene	55	63	72 - 115	13	30	F1	F1
Benzo[b]fluoranthene	62	69	69 - 119	10	30	F1	
Benzo[g,h,i]perylene	50	57	54 - 128	13	30	F1	
Benzo[k]fluoranthene	55	64	70 - 115	14	30	F1	F1
Bis(2-chloroethoxy)methane	54	51	65 - 106	6	30	F1	F1
Bis(2-chloroethyl)ether	43	43	64 - 105	1	30	F1	F1
Bis(2-ethylhexyl) phthalate	60	68	63 - 125	13	30	F1	
Butyl benzyl phthalate	62	70	65 - 125	13	30	F1	
Caprolactam	49	45	53 - 148	10	30	F1	F1
Carbazole	53	63	66 - 115	18	30	F1	F1
Chrysene	58	65	70 - 111	12	30	F1	F1
Dibenz(a,h)anthracene	51	60	60 - 130	15	30	F1	
Dibenzofuran	58	62	67 - 107	8	30	F1	F1
Diethyl phthalate	58	65	66 - 117	12	30	F1	F1
Dimethyl phthalate	58	64	68 - 112	10	30	F1	F1
Di-n-butyl phthalate	57	68	67 - 119	17	30	F1	
Di-n-octyl phthalate	64	72	57 - 138	12	30		
Fluoranthene	54	64	64 - 114	16	30	F1	
Fluorene	57	62	66 - 110	9	30	F1	F1
Hexachlorobenzene	59	69	57 - 128	16	30		
Hexachlorobutadiene	53	52	60 - 108	2	30	F1	F1
Hexachlorocyclopentadiene	43	38	50 - 129	11	30	F1	F1
Hexachloroethane	45	45	63 - 99	1	30	F1	F1
Indeno[1,2,3-cd]pyrene	50	61	53 - 137	20	30	F1	
Isophorone	52	50	68 - 111	3	30	F1	F1
Naphthalene	52	49	65 - 102	4	30	F1	F1
Nitrobenzene	48	45	66 - 108	6	30	F1	F1
N-Nitrosodi-n-propylamine	48	47	63 - 117	1	30	F1	F1
N-Nitrosodiphenylamine	57	66	65 - 114	14	30	F1	
Pentachlorophenol	53	63	56 - 116	17	30	F1	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520592

Method: 8270D  
Preparation: 3546

MS Lab Sample ID: 460-155982-B-32-D MS	Analysis Batch: 460-520783	Instrument ID: CBNAMS5
Client Matrix: Solid	Prep Batch: 460-520592	Lab File ID: X268977.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0123 g
Analysis Date: 05/20/2018 0310		Final Weight/Volume: 1 mL
Prep Date: 05/19/2018 0659		Injection Volume: 1 uL
Leach Date: N/A		

MSD Lab Sample ID: 460-155982-B-32-E MSD	Analysis Batch: 460-520783	Instrument ID: CBNAMS5
Client Matrix: Solid	Prep Batch: 460-520592	Lab File ID: X268978.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0159 g
Analysis Date: 05/20/2018 0334		Final Weight/Volume: 1 mL
Prep Date: 05/19/2018 0659		Injection Volume: 1 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Phenanthrene	56	65	68 - 111	14	30	F1	F1
Phenol	47	47	58 - 103	1	30	F1	F1
Pyrene	63	70	64 - 121	11	30	F1	
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
2,4,6-Tribromophenol (Surr)	65		72	10 - 103			
2-Fluorobiphenyl	63		64	38 - 95			
2-Fluorophenol (Surr)	51		48	25 - 92			
Nitrobenzene-d5 (Surr)	58		54	37 - 94			
Phenol-d5 (Surr)	55		51	32 - 91			
Terphenyl-d14 (Surr)	65		73	24 - 109			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520594

### Method: 8270D Preparation: 3546

Lab Sample ID: MB 460-520594/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0320  
Prep Date: 05/19/2018 0713  
Leach Date: N/A

Analysis Batch: 460-520791  
Prep Batch: 460-520594  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CBNAMS12  
Lab File ID: L2079030.d  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	0.33	U	0.0044	0.33
1,2,4,5-Tetrachlorobenzene	0.33	U	0.0043	0.33
2,2'-oxybis[1-chloropropane]	0.33	U	0.0060	0.33
2,3,4,6-Tetrachlorophenol	0.33	U	0.022	0.33
2,4,5-Trichlorophenol	0.33	U	0.011	0.33
2,4,6-Trichlorophenol	0.13	U	0.017	0.13
2,4-Dichlorophenol	0.13	U	0.0070	0.13
2,4-Dimethylphenol	0.33	U	0.015	0.33
2,4-Dinitrophenol	0.27	U	0.16	0.27
2,4-Dinitrotoluene	0.067	U	0.017	0.067
2,6-Dinitrotoluene	0.067	U	0.011	0.067
2-Chloronaphthalene	0.33	U	0.015	0.33
2-Chlorophenol	0.33	U	0.0046	0.33
2-Methylnaphthalene	0.33	U	0.0041	0.33
2-Methylphenol	0.33	U	0.0053	0.33
2-Nitroaniline	0.33	U	0.012	0.33
2-Nitrophenol	0.33	U	0.011	0.33
3,3'-Dichlorobenzidine	0.13	U	0.050	0.13
3-Nitroaniline	0.33	U	0.018	0.33
4,6-Dinitro-2-methylphenol	0.27	U	0.054	0.27
4-Bromophenyl phenyl ether	0.33	U	0.0043	0.33
4-Chloro-3-methylphenol	0.33	U	0.0055	0.33
4-Chloroaniline	0.33	U	0.023	0.33
4-Chlorophenyl phenyl ether	0.33	U	0.0052	0.33
4-Methylphenol	0.33	U	0.0056	0.33
4-Nitroaniline	0.33	U	0.012	0.33
4-Nitrophenol	0.67	U	0.054	0.67
Acenaphthene	0.33	U	0.024	0.33
Acenaphthylene	0.33	U	0.0034	0.33
Acetophenone	0.33	U	0.0053	0.33
Anthracene	0.33	U	0.0037	0.33
Atrazine	0.13	U	0.0083	0.13
Benzaldehyde	0.33	U	0.014	0.33
Benzo[a]anthracene	0.033	U	0.012	0.033
Benzo[a]pyrene	0.033	U	0.0088	0.033
Benzo[b]fluoranthene	0.033	U	0.0086	0.033
Benzo[g,h,i]perylene	0.33	U	0.0098	0.33
Benzo[k]fluoranthene	0.033	U	0.0065	0.033
Bis(2-chloroethoxy)methane	0.33	U	0.011	0.33
Bis(2-chloroethyl)ether	0.033	U	0.0040	0.033
Bis(2-ethylhexyl) phthalate	0.33	U	0.017	0.33
Butyl benzyl phthalate	0.33	U	0.016	0.33
Caprolactam	0.33	U	0.020	0.33
Carbazole	0.33	U	0.0039	0.33
Chrysene	0.33	U	0.0056	0.33



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520594

### Method: 8270D Preparation: 3546

Lab Sample ID: MB 460-520594/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0320  
Prep Date: 05/19/2018 0713  
Leach Date: N/A

Analysis Batch: 460-520791  
Prep Batch: 460-520594  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CBNAMS12  
Lab File ID: L2079030.d  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Dibenz(a,h)anthracene	0.033	U	0.014	0.033
Dibenzofuran	0.33	U	0.0046	0.33
Diethyl phthalate	0.33	U	0.0048	0.33
Dimethyl phthalate	0.33	U	0.0040	0.33
Di-n-butyl phthalate	0.33	U	0.058	0.33
Di-n-octyl phthalate	0.33	U	0.018	0.33
Fluoranthene	0.33	U	0.0043	0.33
Fluorene	0.33	U	0.0045	0.33
Hexachlorobenzene	0.033	U	0.0048	0.033
Hexachlorobutadiene	0.067	U	0.0070	0.067
Hexachlorocyclopentadiene	0.33	U	0.029	0.33
Hexachloroethane	0.033	U	0.0051	0.033
Indeno[1,2,3-cd]pyrene	0.033	U	0.013	0.033
Isophorone	0.13	U	0.0087	0.13
Naphthalene	0.33	U	0.0057	0.33
Nitrobenzene	0.033	U	0.0079	0.033
N-Nitrosodi-n-propylamine	0.033	U	0.0053	0.033
N-Nitrosodiphenylamine	0.33	U	0.0063	0.33
Pentachlorophenol	0.27	U	0.068	0.27
Phenanthrene	0.33	U	0.0058	0.33
Phenol	0.33	U	0.0049	0.33
Pyrene	0.33	U	0.0082	0.33

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	91	10 - 103
2-Fluorobiphenyl	83	38 - 95
2-Fluorophenol (Surr)	83	25 - 92
Nitrobenzene-d5 (Surr)	83	37 - 94
Phenol-d5 (Surr)	76	32 - 91
Terphenyl-d14 (Surr)	81	24 - 109



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample - Batch: 460-520594

**Method: 8270D**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-520594/2-A	Analysis Batch:	460-520791	Instrument ID:	CBNAMS12
Client Matrix:	Solid	Prep Batch:	460-520594	Lab File ID:	L2079028.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/20/2018 0235	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/19/2018 0713			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1'-Biphenyl	3.33	3.10	93	64 - 108	
1,2,4,5-Tetrachlorobenzene	3.33	3.10	93	57 - 112	
2,2'-oxybis[1-chloropropane]	3.33	2.99	90	39 - 122	
2,3,4,6-Tetrachlorophenol	3.33	3.29	99	60 - 114	
2,4,5-Trichlorophenol	3.33	3.18	96	60 - 106	
2,4,6-Trichlorophenol	3.33	3.33	100	62 - 110	
2,4-Dichlorophenol	3.33	3.28	98	61 - 103	
2,4-Dimethylphenol	3.33	3.13	94	63 - 101	
2,4-Dinitrophenol	6.67	5.80	87	56 - 122	
2,4-Dinitrotoluene	3.33	3.53	106	66 - 122	
2,6-Dinitrotoluene	3.33	3.45	104	70 - 114	
2-Chloronaphthalene	3.33	3.13	94	63 - 107	
2-Chlorophenol	3.33	3.13	94	62 - 97	
2-Methylnaphthalene	3.33	3.04	91	65 - 104	
2-Methylphenol	3.33	3.11	93	61 - 103	
2-Nitroaniline	3.33	3.40	102	57 - 114	
2-Nitrophenol	3.33	3.27	98	65 - 104	
3,3'-Dichlorobenzidine	3.33	1.93	58	18 - 88	
3-Nitroaniline	3.33	2.46	74	30 - 94	
4,6-Dinitro-2-methylphenol	6.67	6.47	97	67 - 120	
4-Bromophenyl phenyl ether	3.33	3.16	95	59 - 122	
4-Chloro-3-methylphenol	3.33	3.35	101	62 - 111	
4-Chloroaniline	3.33	1.74	52	18 - 94	
4-Chlorophenyl phenyl ether	3.33	3.21	96	66 - 110	
4-Methylphenol	3.33	3.08	92	61 - 105	
4-Nitroaniline	3.33	3.33	100	49 - 118	
4-Nitrophenol	6.67	6.78	102	43 - 141	
Acenaphthene	3.33	2.78	83	62 - 108	
Acenaphthylene	3.33	3.11	93	67 - 107	
Acetophenone	3.33	2.83	85	60 - 109	
Anthracene	3.33	3.19	96	69 - 111	
Benzo[a]anthracene	3.33	3.16	95	68 - 110	
Benzo[a]pyrene	3.33	3.42	103	72 - 115	
Benzo[b]fluoranthene	3.33	3.49	105	69 - 119	
Benzo[g,h,i]perylene	3.33	3.17	95	54 - 128	
Benzo[k]fluoranthene	3.33	3.16	95	70 - 115	
Bis(2-chloroethoxy)methane	3.33	2.98	89	65 - 106	
Bis(2-chloroethyl)ether	3.33	2.93	88	64 - 105	
Bis(2-ethylhexyl) phthalate	3.33	3.40	102	63 - 125	
Butyl benzyl phthalate	3.33	3.55	107	65 - 125	
Carbazole	3.33	3.30	99	66 - 115	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample - Batch: 460-520594

**Method: 8270D**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-520594/2-A	Analysis Batch:	460-520791	Instrument ID:	CBNAMS12
Client Matrix:	Solid	Prep Batch:	460-520594	Lab File ID:	L2079028.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/20/2018 0235	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/19/2018 0713			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chrysene	3.33	3.10	93	70 - 111	
Dibenz(a,h)anthracene	3.33	3.30	99	60 - 130	
Dibenzofuran	3.33	3.17	95	67 - 107	
Diethyl phthalate	3.33	3.34	100	66 - 117	
Dimethyl phthalate	3.33	3.24	97	68 - 112	
Di-n-butyl phthalate	3.33	3.41	102	67 - 119	
Di-n-octyl phthalate	3.33	3.67	110	57 - 138	
Fluoranthene	3.33	3.33	100	64 - 114	
Fluorene	3.33	3.20	96	66 - 110	
Hexachlorobenzene	3.33	3.14	94	57 - 128	
Hexachlorobutadiene	3.33	3.18	95	60 - 108	
Hexachlorocyclopentadiene	3.33	2.56	77	50 - 129	
Hexachloroethane	3.33	2.83	85	63 - 99	
Indeno[1,2,3-cd]pyrene	3.33	3.40	102	53 - 137	
Isophorone	3.33	3.05	92	68 - 111	
Naphthalene	3.33	3.01	90	65 - 102	
Nitrobenzene	3.33	3.08	92	66 - 108	
N-Nitrosodi-n-propylamine	3.33	3.07	92	63 - 117	
N-Nitrosodiphenylamine	3.33	3.18	95	65 - 114	
Pentachlorophenol	6.67	5.64	85	56 - 116	
Phenanthrene	3.33	3.19	96	68 - 111	
Phenol	3.33	3.11	93	58 - 103	
Pyrene	3.33	3.19	96	64 - 121	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	115 X	10 - 103
2-Fluorobiphenyl	98 X	38 - 95
2-Fluorophenol (Surr)	101 X	25 - 92
Nitrobenzene-d5 (Surr)	96 X	37 - 94
Phenol-d5 (Surr)	99 X	32 - 91
Terphenyl-d14 (Surr)	94	24 - 109



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample - Batch: 460-520594

**Method: 8270D**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-520594/3-A	Analysis Batch:	460-520791	Instrument ID:	CBNAMS12
Client Matrix:	Solid	Prep Batch:	460-520594	Lab File ID:	L2079029.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/20/2018 0258	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/19/2018 0713			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Atrazine	6.67	7.43	111	62 - 137	
Benzaldehyde	6.67	6.26	94	52 - 113	
Caprolactam	6.67	7.55	113	53 - 148	

Surrogate	% Rec		Acceptance Limits
2,4,6-Tribromophenol (Surr)	107	X	10 - 103
2-Fluorobiphenyl	98	X	38 - 95
2-Fluorophenol (Surr)	98	X	25 - 92
Nitrobenzene-d5 (Surr)	97	X	37 - 94
Phenol-d5 (Surr)	92	X	32 - 91
Terphenyl-d14 (Surr)	95		24 - 109



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520594

Method: 8270D  
Preparation: 3546

MS Lab Sample ID: 460-156390-5  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0406  
Prep Date: 05/19/2018 0713  
Leach Date: N/A

Analysis Batch: 460-520791  
Prep Batch: 460-520594  
Leach Batch: N/A

Instrument ID: CBNAMS12  
Lab File ID: L2079032.d  
Initial Weight/Volume: 15.0120 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

MSD Lab Sample ID: 460-156390-5  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0428  
Prep Date: 05/19/2018 0713  
Leach Date: N/A

Analysis Batch: 460-520791  
Prep Batch: 460-520594  
Leach Batch: N/A

Instrument ID: CBNAMS12  
Lab File ID: L2079033.d  
Initial Weight/Volume: 15.0199 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1'-Biphenyl	70	68	64 - 108	3	30		
1,2,4,5-Tetrachlorobenzene	69	68	57 - 112	2	30		
2,2'-oxybis[1-chloropropane]	63	62	39 - 122	2	30		
2,3,4,6-Tetrachlorophenol	75	75	60 - 114	0	30		
2,4,5-Trichlorophenol	71	67	60 - 106	6	30		
2,4,6-Trichlorophenol	76	76	62 - 110	0	30		
2,4-Dichlorophenol	74	71	61 - 103	3	30		
2,4-Dimethylphenol	69	68	63 - 101	1	30		
2,4-Dinitrophenol	29	36	56 - 122	21	30	F1	F1
2,4-Dinitrotoluene	83	81	66 - 122	3	30		
2,6-Dinitrotoluene	81	80	70 - 114	1	30		
2-Chloronaphthalene	70	68	63 - 107	3	30		
2-Chlorophenol	67	65	62 - 97	2	30		
2-Methylnaphthalene	67	66	65 - 104	2	30		
2-Methylphenol	66	65	61 - 103	2	30		
2-Nitroaniline	79	78	57 - 114	1	30		
2-Nitrophenol	68	68	65 - 104	1	30		
3,3'-Dichlorobenzidine	58	62	18 - 88	7	30		
3-Nitroaniline	68	69	30 - 94	1	30		
4,6-Dinitro-2-methylphenol	60	64	67 - 120	6	30	F1	F1
4-Bromophenyl phenyl ether	74	73	59 - 122	1	30		
4-Chloro-3-methylphenol	77	76	62 - 111	2	30		
4-Chloroaniline	48	51	18 - 94	6	30		
4-Chlorophenyl phenyl ether	74	72	66 - 110	3	30		
4-Methylphenol	66	66	61 - 105	0	30		
4-Nitroaniline	77	75	49 - 118	2	30		
4-Nitrophenol	62	64	43 - 141	3	30		
Acenaphthene	62	61	62 - 108	2	30		F1
Acenaphthylene	71	69	67 - 107	3	30		
Acetophenone	60	59	60 - 109	2	30		F1
Anthracene	77	75	69 - 111	3	30		
Atrazine	93	98	62 - 137	4	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520594

Method: 8270D  
Preparation: 3546

MS Lab Sample ID: 460-156390-5  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0406  
Prep Date: 05/19/2018 0713  
Leach Date: N/A

Analysis Batch: 460-520791  
Prep Batch: 460-520594  
Leach Batch: N/A

Instrument ID: CBNAMS12  
Lab File ID: L2079032.d  
Initial Weight/Volume: 15.0120 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

MSD Lab Sample ID: 460-156390-5  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0428  
Prep Date: 05/19/2018 0713  
Leach Date: N/A

Analysis Batch: 460-520791  
Prep Batch: 460-520594  
Leach Batch: N/A

Instrument ID: CBNAMS12  
Lab File ID: L2079033.d  
Initial Weight/Volume: 15.0199 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzaldehyde	71	74	52 - 113	3	30		
Benzo[a]anthracene	78	77	68 - 110	2	30		
Benzo[a]pyrene	84	84	72 - 115	0	30		
Benzo[b]fluoranthene	80	80	69 - 119	0	30		
Benzo[g,h,i]perylene	77	76	54 - 128	1	30		
Benzo[k]fluoranthene	87	84	70 - 115	3	30		
Bis(2-chloroethoxy)methane	66	65	65 - 106	1	30		
Bis(2-chloroethyl)ether	62	61	64 - 105	3	30	F1	F1
Bis(2-ethylhexyl) phthalate	84	83	63 - 125	1	30		
Butyl benzyl phthalate	85	84	65 - 125	1	30		
Caprolactam	89	98	53 - 148	9	30		
Carbazole	78	78	66 - 115	0	30		
Chrysene	76	76	70 - 111	0	30		
Dibenz(a,h)anthracene	79	79	60 - 130	1	30		
Dibenzofuran	73	71	67 - 107	3	30		
Diethyl phthalate	81	77	66 - 117	5	30		
Dimethyl phthalate	77	74	68 - 112	4	30		
Di-n-butyl phthalate	81	81	67 - 119	0	30		
Di-n-octyl phthalate	91	90	57 - 138	2	30		
Fluoranthene	78	79	64 - 114	1	30		
Fluorene	75	74	66 - 110	1	30		
Hexachlorobenzene	75	74	57 - 128	2	30		
Hexachlorobutadiene	67	67	60 - 108	1	30		
Hexachlorocyclopentadiene	57	55	50 - 129	4	30		
Hexachloroethane	60	59	63 - 99	1	30	F1	F1
Indeno[1,2,3-cd]pyrene	83	82	53 - 137	1	30		
Isophorone	66	65	68 - 111	2	30	F1	F1
Naphthalene	66	64	65 - 102	2	30		F1
Nitrobenzene	66	65	66 - 108	2	30		F1
N-Nitrosodi-n-propylamine	67	65	63 - 117	3	30		
N-Nitrosodiphenylamine	76	75	65 - 114	1	30		
Pentachlorophenol	56	60	56 - 116	6	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520594

Method: 8270D  
Preparation: 3546

MS Lab Sample ID: 460-156390-5  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0406  
Prep Date: 05/19/2018 0713  
Leach Date: N/A

Analysis Batch: 460-520791  
Prep Batch: 460-520594  
Leach Batch: N/A

Instrument ID: CBNAMS12  
Lab File ID: L2079032.d  
Initial Weight/Volume: 15.0120 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

MSD Lab Sample ID: 460-156390-5  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/20/2018 0428  
Prep Date: 05/19/2018 0713  
Leach Date: N/A

Analysis Batch: 460-520791  
Prep Batch: 460-520594  
Leach Batch: N/A

Instrument ID: CBNAMS12  
Lab File ID: L2079033.d  
Initial Weight/Volume: 15.0199 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Phenanthrene	74	75	68 - 111	1	30		
Phenol	66	66	58 - 103	1	30		
Pyrene	80	77	64 - 121	4	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
2,4,6-Tribromophenol (Surr)	88		85	10 - 103			
2-Fluorobiphenyl	74		71	38 - 95			
2-Fluorophenol (Surr)	71		70	25 - 92			
Nitrobenzene-d5 (Surr)	71		70	37 - 94			
Phenol-d5 (Surr)	71		70	32 - 91			
Terphenyl-d14 (Surr)	79		76	24 - 109			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520339

### Method: 8081B

### Preparation: 3510C

Lab Sample ID: MB 460-520339/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/21/2018 0840  
 Prep Date: 05/18/2018 1035  
 Leach Date: N/A

Analysis Batch: 460-521044  
 Prep Batch: 460-520339  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC4  
 Lab File ID: P4077713.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	78	10 - 150
Tetrachloro-m-xylene	74	12 - 136

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	76	10 - 150
Tetrachloro-m-xylene	72	12 - 136



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-520339

Method: 8081B

Preparation: 3510C

LCS Lab Sample ID: LCS 460-520339/2-A	Analysis Batch: 460-521044	Instrument ID: CPESTGC4
Client Matrix: Water	Prep Batch: 460-520339	Lab File ID: P4077714.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/21/2018 0853	Units: ug/L	Final Weight/Volume: 1 mL
Prep Date: 05/18/2018 1035		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 460-520339/3-A	Analysis Batch: 460-521044	Instrument ID: CPESTGC4
Client Matrix: Water	Prep Batch: 460-520339	Lab File ID: P4077715.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/21/2018 0905	Units: ug/L	Final Weight/Volume: 1 mL
Prep Date: 05/18/2018 1035		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
4,4'-DDD	72	76	58 - 136	4	30		
4,4'-DDE	77	77	56 - 132	0	30		
4,4'-DDT	76	75	56 - 134	1	30		
Aldrin	78	78	52 - 125	1	30		
alpha-BHC	80	79	57 - 133	1	30		
beta-BHC	79	80	61 - 134	1	30		
delta-BHC	79	79	56 - 130	0	30		
Dieldrin	80	81	61 - 135	1	30		
Endosulfan I	80	86	61 - 134	7	30		
Endosulfan II	82	83	61 - 133	1	30		
Endosulfan sulfate	71	73	59 - 133	3	30		
Endrin	81	81	60 - 135	0	30		
Endrin aldehyde	80	80	59 - 130	1	30		
Endrin ketone	74	78	60 - 137	5	30		
gamma-BHC (Lindane)	79	79	59 - 131	0	30		
Heptachlor	77	77	54 - 126	0	30		
Heptachlor epoxide	79	80	60 - 130	2	30		
Methoxychlor	66	67	57 - 133	1	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
DCB Decachlorobiphenyl	74		75		10 - 150		
Tetrachloro-m-xylene	72		69		12 - 136		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-520339

Method: 8081B

Preparation: 3510C

LCS Lab Sample ID: LCS 460-520339/2-A	Analysis Batch: 460-521044	Instrument ID: CPESTGC4
Client Matrix: Water	Prep Batch: 460-520339	Lab File ID: P4077714.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/21/2018 0853	Units: ug/L	Final Weight/Volume: 1 mL
Prep Date: 05/18/2018 1035		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

LCSD Lab Sample ID: LCSD 460-520339/3-A	Analysis Batch: 460-521044	Instrument ID: CPESTGC4
Client Matrix: Water	Prep Batch: 460-520339	Lab File ID: P4077715.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/21/2018 0905	Units: ug/L	Final Weight/Volume: 1 mL
Prep Date: 05/18/2018 1035		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
4,4'-DDD	72	75	58 - 136	4	30		
4,4'-DDE	74	77	56 - 132	4	30		
4,4'-DDT	69	71	56 - 134	4	30		
Aldrin	70	71	52 - 125	2	30		
alpha-BHC	73	75	57 - 133	3	30		
beta-BHC	73	76	61 - 134	4	30		
delta-BHC	69	72	56 - 130	4	30		
Dieldrin	76	77	61 - 135	2	30		
Endosulfan I	76	77	61 - 134	1	30		
Endosulfan II	75	79	61 - 133	5	30		
Endosulfan sulfate	68	71	59 - 133	4	30		
Endrin	78	80	60 - 135	2	30		
Endrin aldehyde	70	73	59 - 130	5	30		
Endrin ketone	70	74	60 - 137	5	30		
gamma-BHC (Lindane)	71	73	59 - 131	3	30		
Heptachlor	70	71	54 - 126	1	30		
Heptachlor epoxide	73	75	60 - 130	2	30		
Methoxychlor	61	61	57 - 133	0	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	71		70	10 - 150			
Tetrachloro-m-xylene	68		67	12 - 136			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520489

### Method: 8081B Preparation: 3546

Lab Sample ID: MB 460-520489/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/21/2018 0906  
Prep Date: 05/18/2018 2055  
Leach Date: N/A

Analysis Batch: 460-521047  
Prep Batch: 460-520489  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC5  
Lab File ID: 5F921062.D  
Initial Weight/Volume: +15.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.0067	U	0.0011	0.0067
4,4'-DDE	0.0067	U	0.00079	0.0067
4,4'-DDT	0.0067	U	0.0012	0.0067
Aldrin	0.0067	U	0.0010	0.0067
alpha-BHC	0.0020	U	0.00068	0.0020
beta-BHC	0.0020	U	0.00075	0.0020
Chlordane (technical)	0.067	U	0.016	0.067
delta-BHC	0.0020	U	0.00041	0.0020
Dieldrin	0.0020	U	0.00087	0.0020
Endosulfan I	0.0067	U	0.0010	0.0067
Endosulfan II	0.0067	U	0.0017	0.0067
Endosulfan sulfate	0.0067	U	0.00084	0.0067
Endrin	0.0067	U	0.00096	0.0067
Endrin aldehyde	0.0067	U	0.0016	0.0067
Endrin ketone	0.0067	U	0.0013	0.0067
gamma-BHC (Lindane)	0.0020	U	0.00062	0.0020
Heptachlor	0.0067	U	0.00079	0.0067
Heptachlor epoxide	0.0067	U	0.0010	0.0067
Methoxychlor	0.0067	U	0.0015	0.0067
Toxaphene	0.067	U	0.024	0.067

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	82	69 - 150
Tetrachloro-m-xylene	87	74 - 150

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	80	69 - 150
Tetrachloro-m-xylene	82	74 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample - Batch: 460-520489

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-520489/2-A	Analysis Batch:	460-521047	Instrument ID:	CPESTGC5
Client Matrix:	Solid	Prep Batch:	460-520489	Lab File ID:	5F921071.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+15.0000 g
Analysis Date:	05/21/2018 1109	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/18/2018 2055			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.131	98	67 - 130	
4,4'-DDE	0.133	0.135	101	70 - 127	
4,4'-DDT	0.133	0.133	100	70 - 122	
Aldrin	0.133	0.133	100	66 - 137	
alpha-BHC	0.133	0.138	103	65 - 142	
beta-BHC	0.133	0.128	96	70 - 132	
delta-BHC	0.133	0.132	99	65 - 136	
Dieldrin	0.133	0.128	96	70 - 134	
Endosulfan I	0.133	0.128	96	70 - 136	
Endosulfan II	0.133	0.130	98	72 - 127	
Endosulfan sulfate	0.133	0.124	93	71 - 128	
Endrin	0.133	0.127	95	74 - 129	
Endrin aldehyde	0.133	0.135	101	71 - 129	
Endrin ketone	0.133	0.129	96	68 - 135	
gamma-BHC (Lindane)	0.133	0.133	100	68 - 136	
Heptachlor	0.133	0.129	97	68 - 132	
Heptachlor epoxide	0.133	0.129	96	72 - 131	
Methoxychlor	0.133	0.124	93	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	87		69 - 150		
Tetrachloro-m-xylene	95		74 - 150		

### Lab Control Sample - Batch: 460-520489

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-520489/2-A	Analysis Batch:	460-521047	Instrument ID:	CPESTGC5
Client Matrix:	Solid	Prep Batch:	460-520489	Lab File ID:	5F921071.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+15.0000 g
Analysis Date:	05/21/2018 1109	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/18/2018 2055			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.125	94	67 - 130	
4,4'-DDE	0.133	0.125	94	70 - 127	
4,4'-DDT	0.133	0.123	92	70 - 122	
Aldrin	0.133	0.126	95	66 - 137	
alpha-BHC	0.133	0.134	100	65 - 142	
beta-BHC	0.133	0.126	94	70 - 132	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample - Batch: 460-520489

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-520489/2-A	Analysis Batch:	460-521047	Instrument ID:	CPESTGC5
Client Matrix:	Solid	Prep Batch:	460-520489	Lab File ID:	5F921071.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+15.0000 g
Analysis Date:	05/21/2018 1109	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/18/2018 2055			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
delta-BHC	0.133	0.129	97	65 - 136	
Dieldrin	0.133	0.124	93	70 - 134	
Endosulfan I	0.133	0.127	95	70 - 136	
Endosulfan II	0.133	0.128	96	72 - 127	
Endosulfan sulfate	0.133	0.116	87	71 - 128	
Endrin	0.133	0.122	91	74 - 129	
Endrin aldehyde	0.133	0.132	99	71 - 129	
Endrin ketone	0.133	0.125	94	68 - 135	
gamma-BHC (Lindane)	0.133	0.130	98	68 - 136	
Heptachlor	0.133	0.122	92	68 - 132	
Heptachlor epoxide	0.133	0.123	92	72 - 131	
Methoxychlor	0.133	0.112	84	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	81		69 - 150		
Tetrachloro-m-xylene	84		74 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520489

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156204-A-2-M MS	Analysis Batch: 460-521047	Instrument ID: CPESTGC5
Client Matrix: Solid	Prep Batch: 460-520489	Lab File ID: 5F921064.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: +15.0013 g
Analysis Date: 05/21/2018 0931		Final Weight/Volume: 10 mL
Prep Date: 05/18/2018 2055		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

MSD Lab Sample ID: 460-156204-A-2-R MSD	Analysis Batch: 460-521047	Instrument ID: CPESTGC5
Client Matrix: Solid	Prep Batch: 460-520489	Lab File ID: 5F921065.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: +15.0007 g
Analysis Date: 05/21/2018 0944		Final Weight/Volume: 10 mL
Prep Date: 05/18/2018 2055		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	109	108	67 - 130	1	30		
4,4'-DDE	136	133	70 - 127	2	30	F1	F1
4,4'-DDT	106	104	70 - 122	2	30		
Aldrin	107	104	66 - 137	3	30		
alpha-BHC	108	106	65 - 142	2	30		
beta-BHC	100	99	70 - 132	2	30		
delta-BHC	105	103	65 - 136	2	30		
Dieldrin	106	103	70 - 134	3	30		
Endosulfan I	129	127	70 - 136	2	30		
Endosulfan II	105	102	72 - 127	2	30		
Endosulfan sulfate	96	95	71 - 128	1	30		
Endrin	104	102	74 - 129	2	30		
Endrin aldehyde	85	84	71 - 129	1	30		
Endrin ketone	53	103	68 - 135	64	30	p F1	F2
gamma-BHC (Lindane)	106	104	68 - 136	3	30		
Heptachlor	104	102	68 - 132	1	30		
Heptachlor epoxide	105	102	72 - 131	3	30		
Methoxychlor	99	101	63 - 135	2	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	87		82	69 - 150			
Tetrachloro-m-xylene	80		90	74 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520489

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156204-A-2-M MS	Analysis Batch: 460-521047	Instrument ID: CPESTGC5
Client Matrix: Solid	Prep Batch: 460-520489	Lab File ID: 5F921064.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: +15.0013 g
Analysis Date: 05/21/2018 0931		Final Weight/Volume: 10 mL
Prep Date: 05/18/2018 2055		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

MSD Lab Sample ID: 460-156204-A-2-R MSD	Analysis Batch: 460-521047	Instrument ID: CPESTGC5
Client Matrix: Solid	Prep Batch: 460-520489	Lab File ID: 5F921065.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: +15.0007 g
Analysis Date: 05/21/2018 0944		Final Weight/Volume: 10 mL
Prep Date: 05/18/2018 2055		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	105	101	67 - 130	4	30		
4,4'-DDE	100	99	70 - 127	1	30		
4,4'-DDT	99	94	70 - 122	4	30		
Aldrin	102	99	66 - 137	3	30		
alpha-BHC	105	103	65 - 142	2	30		
beta-BHC	100	97	70 - 132	3	30		
delta-BHC	105	102	65 - 136	2	30		
Dieldrin	103	100	70 - 134	3	30		
Endosulfan I	101	99	70 - 136	2	30		
Endosulfan II	103	100	72 - 127	4	30		
Endosulfan sulfate	91	91	71 - 128	1	30		
Endrin	101	98	74 - 129	4	30		
Endrin aldehyde	80	77	71 - 129	4	30		
Endrin ketone	102	99	68 - 135	3	30		
gamma-BHC (Lindane)	104	101	68 - 136	2	30		
Heptachlor	99	97	68 - 132	2	30		
Heptachlor epoxide	101	99	72 - 131	3	30		
Methoxychlor	93	91	63 - 135	3	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	81		79	69 - 150			
Tetrachloro-m-xylene	79		79	74 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520346

### Method: 8082A

### Preparation: 3510C

Lab Sample ID: MB 460-520346/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/19/2018 1058  
 Prep Date: 05/18/2018 1045  
 Leach Date: N/A

Analysis Batch: 460-520668  
 Prep Batch: 460-520346  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC9  
 Lab File ID: 9F247884.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	0.40	U	0.10	0.40
Aroclor 1221	0.40	U	0.10	0.40
Aroclor 1232	0.40	U	0.10	0.40
Aroclor 1242	0.40	U	0.10	0.40
Aroclor 1248	0.40	U	0.10	0.40
Aroclor 1254	0.40	U	0.099	0.40
Aroclor 1260	0.40	U	0.099	0.40
Aroclor-1262	0.40	U	0.099	0.40
Aroclor 1268	0.40	U	0.099	0.40
Polychlorinated biphenyls, Total	0.40	U	0.10	0.40

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	103	10 - 150
Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	100	10 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample - Batch: 460-520346

**Method: 8082A**  
**Preparation: 3510C**

Lab Sample ID:	LCS 460-520346/2-A	Analysis Batch:	460-520668	Instrument ID:	CPESTGC9
Client Matrix:	Water	Prep Batch:	460-520346	Lab File ID:	9F247885.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	05/19/2018 1115	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	05/18/2018 1045			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	4.00	4.51	113	78 - 150	
Aroclor 1260	4.00	4.46	111	80 - 150	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	109		10 - 150		

### Lab Control Sample - Batch: 460-520346

**Method: 8082A**  
**Preparation: 3510C**

Lab Sample ID:	LCS 460-520346/2-A	Analysis Batch:	460-520668	Instrument ID:	CPESTGC9
Client Matrix:	Water	Prep Batch:	460-520346	Lab File ID:	9F247885.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	05/19/2018 1115	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	05/18/2018 1045			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	4.00	3.81	95	78 - 150	
Aroclor 1260	4.00	3.96	99	80 - 150	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	96		10 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520346

Method: 8082A  
Preparation: 3510C

MS Lab Sample ID:	460-156240-F-13-A MS	Analysis Batch:	460-520668	Instrument ID:	CPESTGC9
Client Matrix:	Water	Prep Batch:	460-520346	Lab File ID:	9F247886.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	05/19/2018 1132			Final Weight/Volume:	1 mL
Prep Date:	05/18/2018 1045			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	460-156240-E-13-A MSD	Analysis Batch:	460-520668	Instrument ID:	CPESTGC9
Client Matrix:	Water	Prep Batch:	460-520346	Lab File ID:	9F247887.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	05/19/2018 1148			Final Weight/Volume:	1 mL
Prep Date:	05/18/2018 1045			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aroclor 1016	152	144	78 - 150	5	30	F1	
Aroclor 1260	107	102	80 - 150	4	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	69		57	10 - 150			

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520346

Method: 8082A  
Preparation: 3510C

MS Lab Sample ID:	460-156240-F-13-A MS	Analysis Batch:	460-520668	Instrument ID:	CPESTGC9
Client Matrix:	Water	Prep Batch:	460-520346	Lab File ID:	9F247886.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	05/19/2018 1132			Final Weight/Volume:	1 mL
Prep Date:	05/18/2018 1045			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

MSD Lab Sample ID:	460-156240-E-13-A MSD	Analysis Batch:	460-520668	Instrument ID:	CPESTGC9
Client Matrix:	Water	Prep Batch:	460-520346	Lab File ID:	9F247887.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	05/19/2018 1148			Final Weight/Volume:	1 mL
Prep Date:	05/18/2018 1045			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aroclor 1016	136	134	78 - 150	1	30		
Aroclor 1260	96	99	80 - 150	3	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	62		56	10 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520503

### Method: 8082A Preparation: 3546

Lab Sample ID:	MB 460-520503/1-A	Analysis Batch:	460-520728	Instrument ID:	CPESTGC8
Client Matrix:	Solid	Prep Batch:	460-520503	Lab File ID:	8F128688.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+15.0000 g
Analysis Date:	05/19/2018 1839	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/18/2018 2115			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	0.067	U	0.0089	0.067
Aroclor 1221	0.067	U	0.0089	0.067
Aroclor 1232	0.067	U	0.0089	0.067
Aroclor 1242	0.067	U	0.0089	0.067
Aroclor 1248	0.067	U	0.0089	0.067
Aroclor 1254	0.067	U	0.0092	0.067
Aroclor 1260	0.067	U	0.0092	0.067
Aroclor-1262	0.067	U	0.0092	0.067
Aroclor 1268	0.067	U	0.0092	0.067
Polychlorinated biphenyls, Total	0.067	U	0.0092	0.067

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	125	53 - 150
Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	109	53 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample - Batch: 460-520503

**Method: 8082A**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-520503/2-A	Analysis Batch:	460-520728	Instrument ID:	CPESTGC8
Client Matrix:	Solid	Prep Batch:	460-520503	Lab File ID:	8F128689.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+15.0000 g
Analysis Date:	05/19/2018 1856	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/18/2018 2115			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	0.333	0.327	98	76 - 146	
Aroclor 1260	0.333	0.407	122	74 - 148	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	117		53 - 150		

### Lab Control Sample - Batch: 460-520503

**Method: 8082A**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-520503/2-A	Analysis Batch:	460-520728	Instrument ID:	CPESTGC8
Client Matrix:	Solid	Prep Batch:	460-520503	Lab File ID:	8F128689.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+15.0000 g
Analysis Date:	05/19/2018 1856	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/18/2018 2115			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	0.333	0.316	95	76 - 146	
Aroclor 1260	0.333	0.348	104	74 - 148	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	104		53 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520503

Method: 8082A  
Preparation: 3546

MS Lab Sample ID: 460-156204-A-2-O MS	Analysis Batch: 460-520728	Instrument ID: CPESTGC8
Client Matrix: Solid	Prep Batch: 460-520503	Lab File ID: 8F128690.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: +15.0055 g
Analysis Date: 05/19/2018 1914		Final Weight/Volume: 10 mL
Prep Date: 05/18/2018 2115		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

MSD Lab Sample ID: 460-156204-A-2-P MSD	Analysis Batch: 460-520728	Instrument ID: CPESTGC8
Client Matrix: Solid	Prep Batch: 460-520503	Lab File ID: 8F128691.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: +15.0046 g
Analysis Date: 05/19/2018 1931		Final Weight/Volume: 10 mL
Prep Date: 05/18/2018 2115		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aroclor 1016	119	114	76 - 146	5	30		
Aroclor 1260	127	124	74 - 148	2	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	142		123	53 - 150			

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520503

Method: 8082A  
Preparation: 3546

MS Lab Sample ID: 460-156204-A-2-O MS	Analysis Batch: 460-520728	Instrument ID: CPESTGC8
Client Matrix: Solid	Prep Batch: 460-520503	Lab File ID: 8F128690.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: +15.0055 g
Analysis Date: 05/19/2018 1914		Final Weight/Volume: 10 mL
Prep Date: 05/18/2018 2115		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

MSD Lab Sample ID: 460-156204-A-2-P MSD	Analysis Batch: 460-520728	Instrument ID: CPESTGC8
Client Matrix: Solid	Prep Batch: 460-520503	Lab File ID: 8F128691.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: +15.0046 g
Analysis Date: 05/19/2018 1931		Final Weight/Volume: 10 mL
Prep Date: 05/18/2018 2115		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aroclor 1016	106	111	76 - 146	4	30		
Aroclor 1260	111	109	74 - 148	1	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	118		107	53 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520804

### Method: 8151A

### Preparation: 8151A

Lab Sample ID: MB 460-520804/1-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/21/2018 0749  
Prep Date: 05/20/2018 0100  
Leach Date: N/A

Analysis Batch: 460-521034  
Prep Batch: 460-520804  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CPESTGC1  
Lab File ID: 1F003325.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 3 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	101	54 - 150

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	100	54 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-520804

Method: 8151A

Preparation: 8151A

LCS Lab Sample ID: LCS 460-520804/2-A	Analysis Batch: 460-521034	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-520804	Lab File ID: 1F003326.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/21/2018 0806	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/20/2018 0100		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 460-520804/3-A	Analysis Batch: 460-521034	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-520804	Lab File ID: 1F003327.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/21/2018 0822	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/20/2018 0100		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
2,4,5-T	127	132	68 - 139	4	30		
2,4-D	114	140	48 - 119	20	30		*
Silvex (2,4,5-TP)	130	136	76 - 150	4	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
2,4-Dichlorophenylacetic acid	125		129	54 - 150			

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-520804

Method: 8151A

Preparation: 8151A

LCS Lab Sample ID: LCS 460-520804/2-A	Analysis Batch: 460-521034	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-520804	Lab File ID: 1F003326.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/21/2018 0806	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/20/2018 0100		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

LCSD Lab Sample ID: LCSD 460-520804/3-A	Analysis Batch: 460-521034	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-520804	Lab File ID: 1F003327.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/21/2018 0822	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/20/2018 0100		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
2,4,5-T	124	126	68 - 139	2	30		
2,4-D	96	99	48 - 119	3	30		
Silvex (2,4,5-TP)	125	132	76 - 150	5	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
2,4-Dichlorophenylacetic acid	110		116	54 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-520808

### Method: 8151A

### Preparation: 8151A

Lab Sample ID: MB 460-520808/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/21/2018 0751  
Prep Date: 05/20/2018 0113  
Leach Date: N/A

Analysis Batch: 460-521036  
Prep Batch: 460-520808  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC3  
Lab File ID: ZR151329.D  
Initial Weight/Volume: 30.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	0.033	U	0.0071	0.033
2,4-D	0.033	U	0.012	0.033
Silvex (2,4,5-TP)	0.033	U	0.0035	0.033

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	131	80 - 150

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	131	80 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Lab Control Sample - Batch: 460-520808

Method: 8151A

Preparation: 8151A

Lab Sample ID:	LCS 460-520808/2-A	Analysis Batch:	460-521036	Instrument ID:	CPESTGC3
Client Matrix:	Solid	Prep Batch:	460-520808	Lab File ID:	ZR151330.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0000 g
Analysis Date:	05/21/2018 0805	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/20/2018 0113			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	0.0833	0.0951	114	71 - 141	
2,4-D	0.333	0.327	98	47 - 140	
Silvex (2,4,5-TP)	0.0833	0.106	127	80 - 150	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	150	80 - 150

### Lab Control Sample - Batch: 460-520808

Method: 8151A

Preparation: 8151A

Lab Sample ID:	LCS 460-520808/2-A	Analysis Batch:	460-521036	Instrument ID:	CPESTGC3
Client Matrix:	Solid	Prep Batch:	460-520808	Lab File ID:	ZR151330.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0000 g
Analysis Date:	05/21/2018 0805	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/20/2018 0113			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	0.0833	0.0932	112	71 - 141	
2,4-D	0.333	0.316	95	47 - 140	
Silvex (2,4,5-TP)	0.0833	0.102	123	80 - 150	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	145	80 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520808

Method: 8151A  
Preparation: 8151A

MS Lab Sample ID: 460-156356-A-21-C MS	Analysis Batch: 460-521036	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-520808	Lab File ID: ZR151331.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0423 g
Analysis Date: 05/21/2018 0820		Final Weight/Volume: 10 mL
Prep Date: 05/20/2018 0113		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

MSD Lab Sample ID: 460-156356-A-21-D MSD	Analysis Batch: 460-521036	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-520808	Lab File ID: ZR151332.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0362 g
Analysis Date: 05/21/2018 0835		Final Weight/Volume: 10 mL
Prep Date: 05/20/2018 0113		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
2,4,5-T	129	132	71 - 141	2	30		
2,4-D	101	102	47 - 140	0	30	E	E
Silvex (2,4,5-TP)	129	130	80 - 150	0	30		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
2,4-Dichlorophenylacetic acid	154	X	155	X	80 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-520808

Method: 8151A  
Preparation: 8151A

MS Lab Sample ID: 460-156356-A-21-C MS	Analysis Batch: 460-521036	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-520808	Lab File ID: ZR151331.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0423 g
Analysis Date: 05/21/2018 0820		Final Weight/Volume: 10 mL
Prep Date: 05/20/2018 0113		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

MSD Lab Sample ID: 460-156356-A-21-D MSD	Analysis Batch: 460-521036	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-520808	Lab File ID: ZR151332.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0362 g
Analysis Date: 05/21/2018 0835		Final Weight/Volume: 10 mL
Prep Date: 05/20/2018 0113		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
2,4,5-T	113	113	71 - 141	0	30		
2,4-D	86	86	47 - 140	0	30		
Silvex (2,4,5-TP)	128	129	80 - 150	1	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
2,4-Dichlorophenylacetic acid	141		142	80 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-522104

### Method: 6010C

### Preparation: 3050B

Lab Sample ID: MB 460-522104/1-A ^2  
Client Matrix: Solid  
Dilution: 2.0  
Analysis Date: 05/24/2018 1332  
Prep Date: 05/24/2018 0809  
Leach Date: N/A

Analysis Batch: 460-522179  
Prep Batch: 460-522104  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP5  
Lab File ID: 522111D1.asc  
Initial Weight/Volume: 1.00 g  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	4.1	20.0
Antimony	2.0	U	0.24	2.0
Arsenic	1.5	U	0.37	1.5
Barium	20.0	U	1.6	20.0
Beryllium	0.20	U	0.023	0.20
Cadmium	0.40	U	0.060	0.40
Calcium	500	U	51.0	500
Chromium	1.0	U	0.28	1.0
Cobalt	5.0	U	0.57	5.0
Copper	2.5	U	0.57	2.5
Iron	15.0	U	2.7	15.0
Lead	1.0	U	0.30	1.0
Magnesium	500	U	38.6	500
Manganese	1.5	U	0.16	1.5
Nickel	4.0	U	0.38	4.0
Potassium	500	U	26.6	500
Selenium	2.0	U	0.61	2.0
Silver	1.0	U	0.15	1.0
Sodium	500	U	38.5	500
Thallium	2.0	U	0.59	2.0
Vanadium	5.0	U	0.60	5.0
Zinc	3.0	U	0.26	3.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### LCS-Certified Reference Material - Batch: 460-522104

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-522104/2-~~A~~ Analysis Batch: 460-522179  
 Client Matrix: Solid Prep Batch: 460-522104  
 Dilution: 4.0 Leach Batch: N/A  
 Analysis Date: 05/24/2018 1336 Units: mg/Kg  
 Prep Date: 05/24/2018 0809  
 Leach Date: N/A

Instrument ID: ICP5  
 Lab File ID: 522111D1.asc  
 Initial Weight/Volume: 1.02 g  
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	8720	7510	86.1	51.7 - 147.9	
Antimony	94.1	75.69	80.4	0.1 - 206.2	
Arsenic	58.5	56.92	97.3	82.6 - 117.4	
Barium	183	190.9	104.3	82.0 - 118.6	
Beryllium	59.7	61.53	103.1	82.6 - 117.6	
Cadmium	249	260.4	104.6	82.3 - 118.1	
Calcium	4600	4425	96.2	81.1 - 118.9	
Chromium	64.9	67.10	103.4	81.4 - 118.6	
Cobalt	45.0	48.02	106.7	83.6 - 116.4	
Copper	113	112.7	99.7	82.7 - 116.8	
Iron	13600	13190	97.0	58.8 - 141.2	
Lead	161	169.1	105.0	81.4 - 118.6	
Magnesium	2310	2157	93.4	75.8 - 124.2	
Manganese	219	219.4	100.2	81.7 - 118.7	
Nickel	147	161.4	109.8	82.3 - 118.4	
Potassium	2030	1735	85.5	70.0 - 130.0	
Selenium	145	144.8	99.9	77.9 - 121.4	
Silver	51.0	49.55	97.2	78.6 - 121.4	
Sodium	2430	2376	97.8	73.3 - 126.3	
Thallium	188	213.1	113.4	79.8 - 119.7	
Vanadium	125	126.5	101.2	78.3 - 121.6	
Zinc	121	123.3	101.9	80.2 - 119.0	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Matrix Spike - Batch: 460-522104

Method: 6010C

Preparation: 3050B

Lab Sample ID: 460-156390-1

Analysis Batch: 460-522179

Instrument ID: ICP5

Client Matrix: Solid

Prep Batch: 460-522104

Lab File ID: 522111D1.asc

Dilution: 4.0

Leach Batch: N/A

Initial Weight/Volume: 1.05 g

Analysis Date: 05/24/2018 1343

Units: mg/Kg

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0809

Leach Date: N/A

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	554		195	866.9	160	75 - 125	F1
Antimony	3.8	U	48.7	45.62	94	75 - 125	
Arsenic	1.0	J	195	183.7	94	75 - 125	
Barium	38.2	U	195	206.8	106	75 - 125	
Beryllium	0.073	J	4.87	4.84	98	75 - 125	
Cadmium	0.76	U	4.87	4.92	101	75 - 125	
Calcium	956	U	1950	1939	99	75 - 125	
Chromium	1.3	J	19.5	22.74	110	75 - 125	
Cobalt	9.6	U	48.7	52.00	107	75 - 125	
Copper	2.1	J	24.4	25.71	97	75 - 125	
Iron	2380		97.4	1564	-835	75 - 125	4
Lead	1.5	J	48.7	51.90	103	75 - 125	
Magnesium	118	J	1950	2031	98	75 - 125	
Manganese	18.1		48.7	72.89	112	75 - 125	
Nickel	7.6	U	48.7	51.45	106	75 - 125	
Potassium	56.7	J	1950	1839	91	75 - 125	
Selenium	3.8	U	195	189.5	97	75 - 125	
Silver	1.9	U	4.87	4.52	93	75 - 125	
Sodium	956	U	1950	1871	96	75 - 125	
Thallium	3.8	U	195	214.8	110	75 - 125	
Vanadium	2.0	J	48.7	53.07	105	75 - 125	
Zinc	2.1	J	48.7	53.50	106	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Duplicate - Batch: 460-522104**

**Method: 6010C**  
**Preparation: 3050B**

Lab Sample ID: 460-156390-1  
Client Matrix: Solid  
Dilution: 4.0  
Analysis Date: 05/24/2018 1347  
Prep Date: 05/24/2018 0809  
Leach Date: N/A

Analysis Batch: 460-522179  
Prep Batch: 460-522104  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP5  
Lab File ID: 522111D1.asc  
Initial Weight/Volume: 1.09 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	554		466.7	17	20	
Antimony	3.8	U	3.8	NC	20	U
Arsenic	1.0	J	2.8	NC	20	U
Barium	38.2	U	37.5	NC	20	U
Beryllium	0.073	J	0.38	NC	20	U
Cadmium	0.76	U	0.75	NC	20	U
Calcium	956	U	939	NC	20	U
Chromium	1.3	J	3.40	92	20	F3
Cobalt	9.6	U	9.4	NC	20	U
Copper	2.1	J	1.25	51	20	J F5
Iron	2380		1374	53	20	F3
Lead	1.5	J	0.589	86	20	J F5
Magnesium	118	J	92.35	25	20	J F5
Manganese	18.1		15.43	16	20	
Nickel	7.6	U	7.5	NC	20	U
Potassium	56.7	J	939	NC	20	U
Selenium	3.8	U	3.8	NC	20	U
Silver	1.9	U	1.9	NC	20	U
Sodium	956	U	939	NC	20	U
Thallium	3.8	U	3.8	NC	20	U
Vanadium	2.0	J	2.28	11	20	J
Zinc	2.1	J	1.50	31	20	J F5



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-521090

**Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	MB 460-521090/1-A	Analysis Batch:	460-521190	Instrument ID:	LEEMAN6
Client Matrix:	Water	Prep Batch:	460-521090	Lab File ID:	521088hg1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	05/21/2018 1455	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	05/21/2018 1203				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.12	0.20

### Lab Control Sample - Batch: 460-521090

**Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	LCS 460-521090/2-A	Analysis Batch:	460-521190	Instrument ID:	LEEMAN6
Client Matrix:	Water	Prep Batch:	460-521090	Lab File ID:	521088hg1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	05/21/2018 1457	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	05/21/2018 1203				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	1.00	0.959	96	80 - 120	

### Matrix Spike - Batch: 460-521090

**Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	460-156444-H-5-C MS	Analysis Batch:	460-521190	Instrument ID:	LEEMAN6
Client Matrix:	Water	Prep Batch:	460-521090	Lab File ID:	521088hg1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	05/21/2018 1505	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	05/21/2018 1203				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.20 U	1.00	0.988	99	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Duplicate - Batch: 460-521090**

**Method: 7470A**

**Preparation: 7470A**

Lab Sample ID: 460-156444-H-5-B DU  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/21/2018 1500  
Prep Date: 05/21/2018 1203  
Leach Date: N/A

Analysis Batch: 460-521190  
Prep Batch: 460-521090  
Leach Batch: N/A  
Units: ug/L

Instrument ID: LEEMAN6  
Lab File ID: 521088hg1.CSV  
Initial Weight/Volume: 30 mL  
Final Weight/Volume: 30 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.20	U	0.20	NC	20	U



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Method Blank - Batch: 460-521332

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	MB 460-521332/1-A	Analysis Batch:	460-521461	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-521332	Lab File ID:	531312HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/22/2018 1000	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/22/2018 0505				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-521332

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	LCSSRM 460-521332/2-1	Analysis Batch:	460-521461	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-521332	Lab File ID:	531312HG1.CSV
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/22/2018 1002	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/22/2018 0505				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	13.02	110.3	70.3 - 129.7	

### Matrix Spike - Batch: 460-521332

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	460-156361-D-25-B MS	Analysis Batch:	460-521461	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-521332	Lab File ID:	531312HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.64 g
Analysis Date:	05/22/2018 1007	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/22/2018 0505				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.011 J	0.0855	0.125	133	75 - 125	F1



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

**Duplicate - Batch: 460-521332**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-156361-A-25-D DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/22/2018 1006  
Prep Date: 05/22/2018 0505  
Leach Date: N/A

Analysis Batch: 460-521461  
Prep Batch: 460-521332  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 531312HG1.CSV  
Initial Weight/Volume: 0.64 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.011	J	0.0159	32	20	J F5



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156390-1

### Duplicate - Batch: 460-521420

### Method: Moisture Preparation: N/A

Lab Sample ID:	460-156464-C-4 DU	Analysis Batch:	460-521420	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/22/2018 0937	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	44.3	44.0	0.7	20	
Percent Solids	55.7	56.0	0.5	20	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

NYSC  
460501

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice) <b>Jennifer Lewis</b>		Samplers Name (Printed) <b>Nick Iannucci</b>		Site/Project Identification <b>RSL1801</b>	
Company <b>PW Grosser Consulting</b>		P. O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input type="checkbox"/> Other: <input type="checkbox"/>	
Address <b>630 Johnson Ave. Ste 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> <b>5 days</b>		Regulatory Program:	
City <b>Bohemia</b>		State <b>NY</b>		LAB USE ONLY Project No: Job No: <b>156390</b>	
Phone <b>(631) 584-6353</b>		Fax		Sample Numbers	
Sample Identification	Date	Time	Matrix	No. of Cont.	ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)
SB0001 (11'-13')	5/17/18	925	S	4	TCL Pest (8081B)
SB0002 (6'-8')		1015		4	Herb (8151A)
SB0003 (8'-10')		1135		4	TAL Metals (6010C)
SB0004 (2'-4')		1235		4	Mercury (7471B)
SB0004 (20'-22')		1245		4	TCL VOCs (8200)
SB0005 (2'-4')		1435		4	SVOCs (8270)
BCP-001				4	PCBs (8082)
EB001				12	
Tip Blank				3	
<b>SHORT HOLD</b>					
Preservation Used: 1 = ICE, 2 = HCl, 3 = H <sub>2</sub> SO <sub>4</sub> , 4 = HNO <sub>3</sub> , 5 = NaOH					
Soil: <input type="checkbox"/> Water: <input type="checkbox"/>					
6 = Other <input type="checkbox"/> 7 = Other <input type="checkbox"/>					



460-156390 Chain of Custody

### Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by <b>[Signature]</b>	Company <b>PWGC</b>	Date / Time <b>5/17/18 1600</b>	Received by <b>[Signature]</b>	Company <b>[Signature]</b>
Relinquished by <b>[Signature]</b>	Company <b>TA</b>	Date / Time <b>5/17/18 1746</b>	Received by <b>[Signature]</b>	Company <b>F. H</b>
Relinquished by <b>[Signature]</b>	Company <b>TA</b>	Date / Time <b>5/17/18 1740</b>	Received by <b>[Signature]</b>	Company <b>TA Cai</b>
Relinquished by <b>[Signature]</b>	Company <b>[Signature]</b>	Date / Time <b>[Signature]</b>	Received by <b>[Signature]</b>	Company <b>[Signature]</b>

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

TAL-0016 (07/15)



156390

Number of Coolers		IR Gun		Cooler Temperatures	
1	2	1	2	1	2
Cooler 11	Cooler 12	Cooler 14	Cooler 15	Cooler 17	Cooler 18
0	0	0	0	0	0
Cooler 21	Cooler 22	Cooler 24	Cooler 25	Cooler 27	Cooler 28
0	0	0	0	0	0
Cooler 31	Cooler 32	Cooler 34	Cooler 35	Cooler 37	Cooler 38
0	0	0	0	0	0

[illegible]

**If pH adjustments are required record the information below:**

Sample No(s). adjusted: \_\_\_\_\_

Preservative Name/Conc.: \_\_\_\_\_

Volume of Preservative used (ml): \_\_\_\_\_

**Lot # of Preservative(s):**

Expiration Date: \_\_\_\_\_

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

**Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.**

Initials: SV

Date: 5/17/8



## Login Sample Receipt Checklist

Client: PW Grosser Consulting

Job Number: 460-156390-1

Login Number: 156390

List Source: TestAmerica Edison

List Number: 1

Creator: Villanueva, Angelica P

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## ANALYTICAL REPORT

Job Number: 460-156541-1

Job Description: RSL 1801

For:  
PW Grosser Consulting  
630 Johnson Ave  
Suite 7  
Bohemia, NY 11716  
Attention: Ms. Jennifer Lewis

*Melissa Haas*

Approved for release.  
Melissa Haas  
Project Manager I  
5/28/2018 10:15 AM

---

Melissa Haas, Project Manager I  
777 New Durham Road, Edison, NJ, 08817  
(203)944-1310  
melissa.haas@testamericainc.com  
05/28/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LA000132

**TestAmerica Laboratories, Inc.**

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817  
Tel (732) 549-3900 Fax (732) 549-3679 [www.testamericainc.com](http://www.testamericainc.com)





Job Number: 460-156541-1

Job Description: RSL 1801

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in black ink that reads "Melissa Haas". The signature is written in a cursive, flowing style. Below the signature is a solid horizontal line.

Approved for release.  
Melissa Haas  
Project Manager I  
5/28/2018 10:15 AM

Melissa Haas



# Table of Contents

Cover Title Page . . . . .	1
Report Narrative . . . . .	4
Executive Summary . . . . .	7
Method Summary . . . . .	14
Method / Analyst Summary . . . . .	15
Sample Summary . . . . .	16
Sample Results . . . . .	17
Sample Datasheets . . . . .	18
Data Qualifiers . . . . .	77
QC Results . . . . .	78
Qc Association Summary . . . . .	79
Surrogate Recovery Report . . . . .	84
Qc Reports . . . . .	86
Client Chain of Custody . . . . .	102
Sample Receipt Checklist . . . . .	105



## CASE NARRATIVE

**Client: PW Grosser Consulting**

**Project: RSL 1801**

**Report Number: 460-156541-1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 05/18/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

### **Receipt Exceptions**

The Chain-of-Custody (COC) was improperly completed. The sample IDs should have hyphens (i.e. SS-001 instead of SS001)

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

### **PESTICIDES**

Samples SS-001(0-3") (460-156541-1), SS-002(0-3") (460-156541-2), SS-003(0-3") (460-156541-3), SS-004(0-3") (460-156541-4), SS-004(18"-24") (460-156541-5), SS-005(0-3") (460-156541-6), SS-006(0-3") (460-156541-7), SS-007(0-3") (460-156541-8), SS-008(0-3") (460-156541-9), SS-009(0-3") (460-156541-10) and SS-010(0-3") (460-156541-11) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 05/22/2018 and analyzed on 05/23/2018 and 05/24/2018.

DCB Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: SS-007(0-3") (460-156541-8). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The following sample was diluted to bring the concentration of target analytes within the calibration range: SS-001(0-3") (460-156541-1) at 50x. Elevated reporting limits (RLs) are provided.

The following samples were diluted to bring the concentration of target analytes within the calibration range: SS-002(0-3") (460-156541-2), SS-005(0-3") (460-156541-6), SS-008(0-3") (460-156541-9) and SS-009(0-3") (460-156541-10) at 5X. Elevated reporting limits (RLs) are provided.

The following sample was diluted to bring the concentration of target analytes within the calibration range: SS-006(0-3") (460-156541-7) at 2X. Elevated reporting limits (RLs) are provided.

The following sample was diluted to bring the concentration of target analytes within the calibration range: SS-010(0-3") (460-156541-11) at 10X. Elevated reporting limits (RLs) are provided.

For the MSD of sample 460-156484-1 in batch 460-521709, Endosulfan sulfate, Endrin aldehyde and Endrin ketone failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, Endosulfan sulfate and Endrin ketone exceeded the RPD limit.

Refer to the QC report for details.

Samples SS-001(0-3") (460-156541-1)[50X], SS-002(0-3") (460-156541-2)[5X], SS-005(0-3") (460-156541-6)[5X], SS-006(0-3") (460-156541-7)[2X], SS-008(0-3") (460-156541-9)[5X], SS-009(0-3") (460-156541-10)[5X] and SS-010(0-3") (460-156541-11)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.



No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

#### **CHLORINATED HERBICIDES**

Samples SS-001(0-3") (460-156541-1), SS-002(0-3") (460-156541-2), SS-003(0-3") (460-156541-3), SS-004(0-3") (460-156541-4), SS-004(18"-24") (460-156541-5), SS-005(0-3") (460-156541-6), SS-006(0-3") (460-156541-7), SS-007(0-3") (460-156541-8), SS-008(0-3") (460-156541-9), SS-009(0-3") (460-156541-10) and SS-010(0-3") (460-156541-11) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared and analyzed on 05/22/2018.

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for 460-155680-A-3-X MS. 2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for 460-155680-A-3-Y MSD. Refer to the QC report for details.

Silvex (2,4,5-TP) exceeded the RPD limit for the MSD of sample 460-155680-3 in batch 460-521370.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL METALS (ICP)**

Samples SS-001(0-3") (460-156541-1), SS-002(0-3") (460-156541-2), SS-003(0-3") (460-156541-3), SS-004(0-3") (460-156541-4), SS-004(18"-24") (460-156541-5), SS-005(0-3") (460-156541-6), SS-006(0-3") (460-156541-7), SS-007(0-3") (460-156541-8), SS-008(0-3") (460-156541-9), SS-009(0-3") (460-156541-10) and SS-010(0-3") (460-156541-11) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010C. The samples were prepared and analyzed on 05/24/2018.

Iron failed the recovery criteria low for the MS of sample SS-001(0-3")MS (460-156541-1) in batch 460-522231. Aluminum failed the recovery criteria high.

Refer to the QC report for details.

Antimony exceeded the RPD limit for the duplicate of sample SS-001(0-3")DU (460-156541-1). Refer to the QC report for details.

Samples SS-001(0-3") (460-156541-1)[4X], SS-002(0-3") (460-156541-2)[4X], SS-003(0-3") (460-156541-3)[4X], SS-004(0-3") (460-156541-4)[4X], SS-004(18"-24") (460-156541-5)[4X], SS-005(0-3") (460-156541-6)[4X], SS-006(0-3") (460-156541-7)[4X], SS-007(0-3") (460-156541-8)[4X], SS-008(0-3") (460-156541-9)[4X], SS-009(0-3") (460-156541-10)[4X] and SS-010(0-3") (460-156541-11)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Total Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY**

Samples SS-001(0-3") (460-156541-1), SS-002(0-3") (460-156541-2), SS-003(0-3") (460-156541-3), SS-004(0-3") (460-156541-4), SS-004(18"-24") (460-156541-5), SS-005(0-3") (460-156541-6), SS-006(0-3") (460-156541-7), SS-007(0-3") (460-156541-8), SS-008(0-3") (460-156541-9), SS-009(0-3") (460-156541-10) and SS-010(0-3") (460-156541-11) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 05/24/2018.

Mercury exceeded the RPD limit for the duplicate of sample 460-156330-10. Refer to the QC report for details.

Samples SS-001(0-3") (460-156541-1)[20X], SS-002(0-3") (460-156541-2)[3X], SS-004(0-3") (460-156541-4)[20X], SS-005(0-3") (460-156541-6)[10X], SS-006(0-3") (460-156541-7)[5X], SS-007(0-3") (460-156541-8)[3X], SS-008(0-3") (460-156541-9)[5X], SS-009(0-3") (460-156541-10)[5X] and SS-010(0-3") (460-156541-11)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

#### **PERCENT SOLIDS/PERCENT MOISTURE**

Samples SS-001(0-3") (460-156541-1), SS-002(0-3") (460-156541-2), SS-003(0-3") (460-156541-3), SS-004(0-3") (460-156541-4), SS-004(18"-24") (460-156541-5), SS-005(0-3") (460-156541-6), SS-006(0-3") (460-156541-7), SS-007(0-3") (460-156541-8), SS-008(0-3") (460-156541-9), SS-009(0-3") (460-156541-10) and SS-010(0-3") (460-156541-11) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 05/21/2018.



No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156541-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156541-1</b>	<b>SS-001(0-3")</b>					
Chlordane (technical)		36		3.9	mg/Kg	8081B
Aluminum		1990		42.9	mg/Kg	6010C
Antimony		0.71	J	4.3	mg/Kg	6010C
Arsenic		0.84	J	3.2	mg/Kg	6010C
Barium		20.0	J	42.9	mg/Kg	6010C
Cadmium		6.5		0.86	mg/Kg	6010C
Calcium		1320		1070	mg/Kg	6010C
Chromium		52.1		2.1	mg/Kg	6010C
Cobalt		1.3	J	10.7	mg/Kg	6010C
Copper		11.8		5.4	mg/Kg	6010C
Iron		4320		32.2	mg/Kg	6010C
Lead		17.7		2.1	mg/Kg	6010C
Magnesium		551	J	1070	mg/Kg	6010C
Manganese		219		3.2	mg/Kg	6010C
Nickel		3.5	J	8.6	mg/Kg	6010C
Potassium		196	J	1070	mg/Kg	6010C
Vanadium		6.8	J	10.7	mg/Kg	6010C
Zinc		57.2		6.4	mg/Kg	6010C
Mercury		14.4		0.39	mg/Kg	7471B
Percent Moisture		13.7		1.0	%	Moisture
Percent Solids		86.3		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156541-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156541-2</b>	<b>SS-002(0-3")</b>					
Chlordane (technical)		2.8		0.41	mg/Kg	8081B
Heptachlor epoxide		0.31		0.041	mg/Kg	8081B
Aluminum		6360		46.3	mg/Kg	6010C
Antimony		1.4	J	4.6	mg/Kg	6010C
Arsenic		4.4		3.5	mg/Kg	6010C
Barium		16.4	J	46.3	mg/Kg	6010C
Cadmium		0.33	J	0.93	mg/Kg	6010C
Calcium		1590		1160	mg/Kg	6010C
Chromium		23.9		2.3	mg/Kg	6010C
Copper		6.7		5.8	mg/Kg	6010C
Iron		6720		34.7	mg/Kg	6010C
Lead		20.9		2.3	mg/Kg	6010C
Magnesium		595	J	1160	mg/Kg	6010C
Manganese		74.7		3.5	mg/Kg	6010C
Nickel		3.7	J	9.3	mg/Kg	6010C
Potassium		188	J	1160	mg/Kg	6010C
Vanadium		14.6		11.6	mg/Kg	6010C
Zinc		31.0		6.9	mg/Kg	6010C
Mercury		1.6		0.057	mg/Kg	7471B
Percent Moisture		17.7		1.0	%	Moisture
Percent Solids		82.3		1.0	%	Moisture
<b>460-156541-3</b>	<b>SS-003(0-3")</b>					
4,4'-DDE		0.0026	J	0.0084	mg/Kg	8081B
Aluminum		5900		50.0	mg/Kg	6010C
Antimony		0.77	J	5.0	mg/Kg	6010C
Arsenic		2.6	J	3.8	mg/Kg	6010C
Barium		11.9	J	50.0	mg/Kg	6010C
Calcium		534	J	1250	mg/Kg	6010C
Chromium		6.5		2.5	mg/Kg	6010C
Copper		5.5	J	6.3	mg/Kg	6010C
Iron		8060		37.5	mg/Kg	6010C
Lead		22.7		2.5	mg/Kg	6010C
Magnesium		552	J	1250	mg/Kg	6010C
Manganese		27.1		3.8	mg/Kg	6010C
Nickel		3.8	J	10.0	mg/Kg	6010C
Potassium		257	J	1250	mg/Kg	6010C
Vanadium		16.6		12.5	mg/Kg	6010C
Zinc		13.7		7.5	mg/Kg	6010C
Mercury		0.23		0.019	mg/Kg	7471B
Percent Moisture		20.8		1.0	%	Moisture
Percent Solids		79.2		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156541-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156541-4</b>	<b>SS-004(0-3")</b>					
4,4'-DDE		0.12		0.0080	mg/Kg	8081B
4,4'-DDT		0.10		0.0080	mg/Kg	8081B
Chlordane (technical)		0.72		0.080	mg/Kg	8081B
Dieldrin		0.010		0.0024	mg/Kg	8081B
Aluminum		9660		47.2	mg/Kg	6010C
Antimony		1.2	J	4.7	mg/Kg	6010C
Arsenic		14.9		3.5	mg/Kg	6010C
Barium		35.6	J	47.2	mg/Kg	6010C
Beryllium		0.15	J	0.47	mg/Kg	6010C
Cadmium		0.47	J	0.94	mg/Kg	6010C
Calcium		2050		1180	mg/Kg	6010C
Chromium		44.2		2.4	mg/Kg	6010C
Cobalt		3.0	J	11.8	mg/Kg	6010C
Copper		18.9		5.9	mg/Kg	6010C
Iron		11900		35.4	mg/Kg	6010C
Lead		33.9		2.4	mg/Kg	6010C
Magnesium		1370		1180	mg/Kg	6010C
Manganese		210		3.5	mg/Kg	6010C
Nickel		8.1	J	9.4	mg/Kg	6010C
Potassium		367	J	1180	mg/Kg	6010C
Vanadium		22.6		11.8	mg/Kg	6010C
Zinc		56.8		7.1	mg/Kg	6010C
Mercury		10.9		0.40	mg/Kg	7471B
Percent Moisture		16.1		1.0	%	Moisture
Percent Solids		83.9		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156541-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156541-5</b>	<b>SS-004(18"-24")</b>					
4,4'-DDE		0.0053	J	0.0077	mg/Kg	8081B
4,4'-DDT		0.0032	J	0.0077	mg/Kg	8081B
Chlordane (technical)		0.11		0.077	mg/Kg	8081B
Aluminum		4070		44.4	mg/Kg	6010C
Arsenic		1.9	J	3.3	mg/Kg	6010C
Barium		12.0	J	44.4	mg/Kg	6010C
Calcium		1080	J	1110	mg/Kg	6010C
Chromium		4.5		2.2	mg/Kg	6010C
Copper		3.2	J	5.6	mg/Kg	6010C
Iron		6550		33.3	mg/Kg	6010C
Lead		7.6		2.2	mg/Kg	6010C
Magnesium		349	J	1110	mg/Kg	6010C
Manganese		13.2		3.3	mg/Kg	6010C
Nickel		1.9	J	8.9	mg/Kg	6010C
Potassium		153	J	1110	mg/Kg	6010C
Selenium		1.3	J	4.4	mg/Kg	6010C
Vanadium		11.4		11.1	mg/Kg	6010C
Zinc		8.0		6.7	mg/Kg	6010C
Mercury		0.23		0.019	mg/Kg	7471B
Percent Moisture		13.4		1.0	%	Moisture
Percent Solids		86.6		1.0	%	Moisture
<b>460-156541-6</b>	<b>SS-005(0-3")</b>					
Chlordane (technical)		2.8		0.42	mg/Kg	8081B
Heptachlor epoxide		0.34		0.042	mg/Kg	8081B
Aluminum		7000		49.5	mg/Kg	6010C
Antimony		1.0	J	5.0	mg/Kg	6010C
Arsenic		3.4	J	3.7	mg/Kg	6010C
Barium		16.4	J	49.5	mg/Kg	6010C
Cadmium		0.73	J	0.99	mg/Kg	6010C
Calcium		2070		1240	mg/Kg	6010C
Chromium		34.2		2.5	mg/Kg	6010C
Copper		8.0		6.2	mg/Kg	6010C
Iron		8670		37.2	mg/Kg	6010C
Lead		20.0		2.5	mg/Kg	6010C
Magnesium		722	J	1240	mg/Kg	6010C
Manganese		73.0		3.7	mg/Kg	6010C
Nickel		3.8	J	9.9	mg/Kg	6010C
Potassium		216	J	1240	mg/Kg	6010C
Vanadium		16.8		12.4	mg/Kg	6010C
Zinc		33.6		7.4	mg/Kg	6010C
Mercury		4.2		0.21	mg/Kg	7471B
Percent Moisture		20.8		1.0	%	Moisture
Percent Solids		79.2		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156541-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156541-7</b>	<b>SS-006(0-3")</b>					
Chlordane (technical)		1.7		0.16	mg/Kg	8081B
Heptachlor epoxide		0.053		0.016	mg/Kg	8081B
Aluminum		2660		45.8	mg/Kg	6010C
Antimony		0.57	J	4.6	mg/Kg	6010C
Arsenic		0.86	J	3.4	mg/Kg	6010C
Barium		10.9	J	45.8	mg/Kg	6010C
Cadmium		1.0		0.92	mg/Kg	6010C
Calcium		695	J	1140	mg/Kg	6010C
Chromium		14.2		2.3	mg/Kg	6010C
Copper		8.6		5.7	mg/Kg	6010C
Iron		4730		34.3	mg/Kg	6010C
Lead		7.7		2.3	mg/Kg	6010C
Magnesium		454	J	1140	mg/Kg	6010C
Manganese		143		3.4	mg/Kg	6010C
Nickel		2.6	J	9.2	mg/Kg	6010C
Potassium		210	J	1140	mg/Kg	6010C
Vanadium		7.8	J	11.4	mg/Kg	6010C
Zinc		37.2		6.9	mg/Kg	6010C
Mercury		3.0		0.090	mg/Kg	7471B
Percent Moisture		15.2		1.0	%	Moisture
Percent Solids		84.8		1.0	%	Moisture
<b>460-156541-8</b>	<b>SS-007(0-3")</b>					
Chlordane (technical)		0.67		0.084	mg/Kg	8081B
Aluminum		6320		46.5	mg/Kg	6010C
Antimony		0.76	J	4.6	mg/Kg	6010C
Arsenic		2.5	J	3.5	mg/Kg	6010C
Barium		11.0	J	46.5	mg/Kg	6010C
Cadmium		0.25	J	0.93	mg/Kg	6010C
Calcium		999	J	1160	mg/Kg	6010C
Chromium		19.8		2.3	mg/Kg	6010C
Copper		4.7	J	5.8	mg/Kg	6010C
Iron		7710		34.9	mg/Kg	6010C
Lead		15.0		2.3	mg/Kg	6010C
Magnesium		547	J	1160	mg/Kg	6010C
Manganese		71.7		3.5	mg/Kg	6010C
Nickel		3.3	J	9.3	mg/Kg	6010C
Potassium		188	J	1160	mg/Kg	6010C
Vanadium		14.1		11.6	mg/Kg	6010C
Zinc		24.1		7.0	mg/Kg	6010C
Mercury		2.3		0.063	mg/Kg	7471B
Percent Moisture		20.3		1.0	%	Moisture
Percent Solids		79.7		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156541-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156541-9</b>	<b>SS-008(0-3")</b>					
Chlordane (technical)		1.7		0.43	mg/Kg	8081B
Heptachlor epoxide		0.24		0.043	mg/Kg	8081B
Aluminum		8370		48.8	mg/Kg	6010C
Antimony		1.2	J	4.9	mg/Kg	6010C
Arsenic		3.0	J	3.7	mg/Kg	6010C
Barium		17.4	J	48.8	mg/Kg	6010C
Beryllium		0.078	J	0.49	mg/Kg	6010C
Cadmium		0.42	J	0.98	mg/Kg	6010C
Calcium		1930		1220	mg/Kg	6010C
Chromium		34.3		2.4	mg/Kg	6010C
Copper		7.4		6.1	mg/Kg	6010C
Iron		9840		36.6	mg/Kg	6010C
Lead		22.8		2.4	mg/Kg	6010C
Magnesium		1010	J	1220	mg/Kg	6010C
Manganese		104		3.7	mg/Kg	6010C
Nickel		5.2	J	9.8	mg/Kg	6010C
Potassium		258	J	1220	mg/Kg	6010C
Vanadium		18.7		12.2	mg/Kg	6010C
Zinc		38.7		7.3	mg/Kg	6010C
Mercury		3.9		0.10	mg/Kg	7471B
Percent Moisture		21.9		1.0	%	Moisture
Percent Solids		78.1		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156541-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156541-10</b>	<b>SS-009(0-3")</b>					
Chlordane (technical)		1.4		0.43	mg/Kg	8081B
Heptachlor epoxide		0.28		0.043	mg/Kg	8081B
Aluminum		6450		47.7	mg/Kg	6010C
Antimony		0.72	J	4.8	mg/Kg	6010C
Arsenic		2.1	J	3.6	mg/Kg	6010C
Barium		12.7	J	47.7	mg/Kg	6010C
Cadmium		0.21	J	0.95	mg/Kg	6010C
Calcium		1180	J	1190	mg/Kg	6010C
Chromium		18.1		2.4	mg/Kg	6010C
Copper		4.4	J	6.0	mg/Kg	6010C
Iron		6800		35.8	mg/Kg	6010C
Lead		13.1		2.4	mg/Kg	6010C
Magnesium		543	J	1190	mg/Kg	6010C
Manganese		48.0		3.6	mg/Kg	6010C
Nickel		3.3	J	9.5	mg/Kg	6010C
Potassium		159	J	1190	mg/Kg	6010C
Vanadium		13.6		11.9	mg/Kg	6010C
Zinc		19.8		7.2	mg/Kg	6010C
Mercury		3.0		0.10	mg/Kg	7471B
Percent Moisture		21.6		1.0	%	Moisture
Percent Solids		78.4		1.0	%	Moisture
<b>460-156541-11</b>	<b>SS-010(0-3")</b>					
Chlordane (technical)		7.7		0.73	mg/Kg	8081B
Heptachlor epoxide		0.14		0.073	mg/Kg	8081B
Aluminum		1010		42.2	mg/Kg	6010C
Barium		8.7	J	42.2	mg/Kg	6010C
Cadmium		1.9		0.84	mg/Kg	6010C
Calcium		698	J	1050	mg/Kg	6010C
Chromium		15.6		2.1	mg/Kg	6010C
Copper		9.6		5.3	mg/Kg	6010C
Iron		2780		31.6	mg/Kg	6010C
Lead		5.0		2.1	mg/Kg	6010C
Magnesium		357	J	1050	mg/Kg	6010C
Manganese		200		3.2	mg/Kg	6010C
Nickel		2.3	J	8.4	mg/Kg	6010C
Potassium		112	J	1050	mg/Kg	6010C
Vanadium		4.5	J	10.5	mg/Kg	6010C
Zinc		44.2		6.3	mg/Kg	6010C
Mercury		2.3		0.084	mg/Kg	7471B
Percent Moisture		7.9		1.0	%	Moisture
Percent Solids		92.1		1.0	%	Moisture



## METHOD SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156541-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Organochlorine Pesticides (GC)	TAL EDI	SW846 8081B	
Microwave Extraction	TAL EDI		SW846 3546
Herbicides (GC)	TAL EDI	SW846 8151A	
Extraction (Herbicides)	TAL EDI		SW846 8151A
Metals (ICP)	TAL EDI	SW846 6010C	
Preparation, Metals	TAL EDI		SW846 3050B
Mercury (CVAA)	TAL EDI	SW846 7471B	
Preparation, Mercury	TAL EDI		SW846 7471B
Percent Moisture	TAL EDI	EPA Moisture	

### Lab References:

TAL EDI = TestAmerica Edison

### Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.



## METHOD / ANALYST SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156541-1

Method	Analyst	Analyst ID
SW846 8081B	Kapoor, Sita	SAK
SW846 8151A	Kapoor, Sita	SAK
SW846 6010C	Huang, Yixin	YZH
SW846 7471B	Staib, Thomas	TJS
EPA Moisture	Callahan, Rory W	RWC



## SAMPLE SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156541-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-156541-1	SS-001(0-3")	Solid	05/18/2018 1145	05/18/2018 2030
460-156541-2	SS-002(0-3")	Solid	05/18/2018 1235	05/18/2018 2030
460-156541-3	SS-003(0-3")	Solid	05/18/2018 1240	05/18/2018 2030
460-156541-4	SS-004(0-3")	Solid	05/18/2018 1250	05/18/2018 2030
460-156541-5	SS-004(18"-24")	Solid	05/18/2018 1255	05/18/2018 2030
460-156541-6	SS-005(0-3")	Solid	05/18/2018 1350	05/18/2018 2030
460-156541-7	SS-006(0-3")	Solid	05/18/2018 1400	05/18/2018 2030
460-156541-8	SS-007(0-3")	Solid	05/18/2018 1405	05/18/2018 2030
460-156541-9	SS-008(0-3")	Solid	05/18/2018 1430	05/18/2018 2030
460-156541-10	SS-009(0-3")	Solid	05/18/2018 1435	05/18/2018 2030
460-156541-11	SS-010(0-3")	Solid	05/18/2018 1440	05/18/2018 2030



# **SAMPLE RESULTS**



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-001(0-3")**

Lab Sample ID: 460-156541-1

Date Sampled: 05/18/2018 1145

Client Matrix: Solid

% Moisture: 13.7

Date Received: 05/18/2018 2030

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522122

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-521592

Initial Weight/Volume: 15.0492 g

Dilution: 50

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 0928

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/22/2018 2340

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.39	U	0.066	0.39
4,4'-DDE		0.39	U	0.046	0.39
4,4'-DDT		0.39	U	0.071	0.39
Aldrin		0.39	U	0.058	0.39
alpha-BHC		0.12	U	0.039	0.12
beta-BHC		0.12	U	0.043	0.12
Chlordane (technical)		36		0.94	3.9
delta-BHC		0.12	U	0.024	0.12
Dieldrin		0.12	U	0.050	0.12
Endosulfan I		0.39	U	0.059	0.39
Endosulfan II		0.39	U	0.099	0.39
Endosulfan sulfate		0.39	U	0.048	0.39
Endrin		0.39	U	0.055	0.39
Endrin aldehyde		0.39	U	0.091	0.39
Endrin ketone		0.39	U	0.075	0.39
gamma-BHC (Lindane)		0.12	U	0.036	0.12
Heptachlor		0.39	U	0.046	0.39
Heptachlor epoxide		0.39	U	0.058	0.39
Methoxychlor		0.39	U	0.088	0.39
Toxaphene		3.9	U	1.4	3.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	0	X	69 - 150
Tetrachloro-m-xylene	0	X	74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-002(0-3")

Lab Sample ID: 460-156541-2

Client Matrix: Solid

% Moisture: 17.7

Date Sampled: 05/18/2018 1235

Date Received: 05/18/2018 2030

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522122

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-521592

Initial Weight/Volume: 15.0385 g

Dilution: 5.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 0940

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/22/2018 2340

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.041	U	0.0069	0.041
4,4'-DDE		0.041	U	0.0048	0.041
4,4'-DDT		0.041	U	0.0075	0.041
Aldrin		0.041	U	0.0061	0.041
alpha-BHC		0.012	U	0.0041	0.012
beta-BHC		0.012	U	0.0045	0.012
Chlordane (technical)		2.8		0.098	0.41
delta-BHC		0.012	U	0.0025	0.012
Dieldrin		0.012	U	0.0053	0.012
Endosulfan I		0.041	U	0.0062	0.041
Endosulfan II		0.041	U	0.010	0.041
Endosulfan sulfate		0.041	U	0.0051	0.041
Endrin		0.041	U	0.0058	0.041
Endrin aldehyde		0.041	U	0.0096	0.041
Endrin ketone		0.041	U	0.0079	0.041
gamma-BHC (Lindane)		0.012	U	0.0038	0.012
Heptachlor		0.041	U	0.0048	0.041
Heptachlor epoxide		0.31		0.0061	0.041
Methoxychlor		0.041	U	0.0093	0.041
Toxaphene		0.41	U	0.15	0.41

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	130		69 - 150
Tetrachloro-m-xylene	119		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-003(0-3")**

Lab Sample ID: 460-156541-3

Date Sampled: 05/18/2018 1240

Client Matrix: Solid

% Moisture: 20.8

Date Received: 05/18/2018 2030

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521867

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-521592

Initial Weight/Volume: 15.0264 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/23/2018 1706

Injection Volume: 1 uL

Prep Date: 05/22/2018 2340

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0084	U	0.0014	0.0084
4,4'-DDE		0.0026	J	0.0010	0.0084
4,4'-DDT		0.0084	U	0.0016	0.0084
Aldrin		0.0084	U	0.0013	0.0084
alpha-BHC		0.0025	U	0.00086	0.0025
beta-BHC		0.0025	U	0.00095	0.0025
Chlordane (technical)		0.084	U	0.020	0.084
delta-BHC		0.0025	U	0.00052	0.0025
Dieldrin		0.0025	U	0.0011	0.0025
Endosulfan I		0.0084	U	0.0013	0.0084
Endosulfan II		0.0084	U	0.0022	0.0084
Endosulfan sulfate		0.0084	U	0.0011	0.0084
Endrin		0.0084	U	0.0012	0.0084
Endrin aldehyde		0.0084	U	0.0020	0.0084
Endrin ketone		0.0084	U	0.0016	0.0084
gamma-BHC (Lindane)		0.0025	U	0.00078	0.0025
Heptachlor		0.0084	U	0.0010	0.0084
Heptachlor epoxide		0.0084	U	0.0013	0.0084
Methoxychlor		0.0084	U	0.0019	0.0084
Toxaphene		0.084	U	0.031	0.084

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	137		69 - 150
Tetrachloro-m-xylene	113		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-003(0-3")**

Lab Sample ID: 460-156541-3

Date Sampled: 05/18/2018 1240

Client Matrix: Solid

% Moisture: 20.8

Date Received: 05/18/2018 2030

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521867

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-521592

Initial Weight/Volume: 15.0264 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/23/2018 1706

Injection Volume: 1 uL

Prep Date: 05/22/2018 2340

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	134		69 - 150
Tetrachloro-m-xylene	111		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-004(0-3")

Lab Sample ID: 460-156541-4

Client Matrix: Solid

% Moisture: 16.1

Date Sampled: 05/18/2018 1250

Date Received: 05/18/2018 2030

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521867

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-521592

Initial Weight/Volume: 15.0218 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/23/2018 1718

Injection Volume: 1 uL

Prep Date: 05/22/2018 2340

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0080	U	0.0014	0.0080
4,4'-DDE		0.12		0.00094	0.0080
4,4'-DDT		0.10		0.0015	0.0080
Aldrin		0.0080	U	0.0012	0.0080
alpha-BHC		0.0024	U	0.00081	0.0024
beta-BHC		0.0024	U	0.00089	0.0024
Chlordane (technical)		0.72		0.019	0.080
delta-BHC		0.0024	U	0.00049	0.0024
Dieldrin		0.010		0.0010	0.0024
Endosulfan I		0.0080	U	0.0012	0.0080
Endosulfan II		0.0080	U	0.0020	0.0080
Endosulfan sulfate		0.0080	U	0.0010	0.0080
Endrin		0.0080	U	0.0011	0.0080
Endrin aldehyde		0.0080	U	0.0019	0.0080
Endrin ketone		0.0080	U	0.0015	0.0080
gamma-BHC (Lindane)		0.0024	U	0.00074	0.0024
Heptachlor		0.0080	U	0.00094	0.0080
Heptachlor epoxide		0.0080	U	0.0012	0.0080
Methoxychlor		0.0080	U	0.0018	0.0080
Toxaphene		0.080	U	0.029	0.080

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	105		69 - 150
Tetrachloro-m-xylene	75		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-004(0-3")**

Lab Sample ID: 460-156541-4

Date Sampled: 05/18/2018 1250

Client Matrix: Solid

% Moisture: 16.1

Date Received: 05/18/2018 2030

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521867

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-521592

Initial Weight/Volume: 15.0218 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/23/2018 1718

Injection Volume: 1 uL

Prep Date: 05/22/2018 2340

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	85		69 - 150
Tetrachloro-m-xylene	74		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-004(18"-24")

Lab Sample ID: 460-156541-5

Date Sampled: 05/18/2018 1255

Client Matrix: Solid

% Moisture: 13.4

Date Received: 05/18/2018 2030

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521867

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-521592

Initial Weight/Volume: 15.0496 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/23/2018 1731

Injection Volume: 1 uL

Prep Date: 05/22/2018 2340

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0077	U	0.0013	0.0077
4,4'-DDE		0.0053	J	0.00091	0.0077
4,4'-DDT		0.0032	J	0.0014	0.0077
Aldrin		0.0077	U	0.0012	0.0077
alpha-BHC		0.0023	U	0.00078	0.0023
beta-BHC		0.0023	U	0.00086	0.0023
Chlordane (technical)		0.11		0.019	0.077
delta-BHC		0.0023	U	0.00047	0.0023
Dieldrin		0.0023	U	0.0010	0.0023
Endosulfan I		0.0077	U	0.0012	0.0077
Endosulfan II		0.0077	U	0.0020	0.0077
Endosulfan sulfate		0.0077	U	0.00097	0.0077
Endrin		0.0077	U	0.0011	0.0077
Endrin aldehyde		0.0077	U	0.0018	0.0077
Endrin ketone		0.0077	U	0.0015	0.0077
gamma-BHC (Lindane)		0.0023	U	0.00071	0.0023
Heptachlor		0.0077	U	0.00091	0.0077
Heptachlor epoxide		0.0077	U	0.0012	0.0077
Methoxychlor		0.0077	U	0.0018	0.0077
Toxaphene		0.077	U	0.028	0.077

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	150		69 - 150
Tetrachloro-m-xylene	149		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-004(18"-24")**

Lab Sample ID: 460-156541-5

Date Sampled: 05/18/2018 1255

Client Matrix: Solid

% Moisture: 13.4

Date Received: 05/18/2018 2030

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521867

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-521592

Initial Weight/Volume: 15.0496 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/23/2018 1731

Injection Volume: 1 uL

Prep Date: 05/22/2018 2340

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	148		69 - 150
Tetrachloro-m-xylene	122		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-005(0-3")

Lab Sample ID: 460-156541-6

Client Matrix: Solid

% Moisture: 20.8

Date Sampled: 05/18/2018 1350

Date Received: 05/18/2018 2030

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B	Analysis Batch: 460-522122	Instrument ID: CPESTGC4
Prep Method: 3546	Prep Batch: 460-521592	Initial Weight/Volume: 15.0285 g
Dilution: 5.0		Final Weight/Volume: 10 mL
Analysis Date: 05/24/2018 0951	Run Type: DL	Injection Volume: 1 uL
Prep Date: 05/22/2018 2340		Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.042	U	0.0072	0.042
4,4'-DDE		0.042	U	0.0050	0.042
4,4'-DDT		0.042	U	0.0078	0.042
Aldrin		0.042	U	0.0064	0.042
alpha-BHC		0.013	U	0.0043	0.013
beta-BHC		0.013	U	0.0047	0.013
Chlordane (technical)		2.8		0.10	0.42
delta-BHC		0.013	U	0.0026	0.013
Dieldrin		0.013	U	0.0055	0.013
Endosulfan I		0.042	U	0.0064	0.042
Endosulfan II		0.042	U	0.011	0.042
Endosulfan sulfate		0.042	U	0.0053	0.042
Endrin		0.042	U	0.0061	0.042
Endrin aldehyde		0.042	U	0.010	0.042
Endrin ketone		0.042	U	0.0082	0.042
gamma-BHC (Lindane)		0.013	U	0.0039	0.013
Heptachlor		0.042	U	0.0050	0.042
Heptachlor epoxide		0.34		0.0063	0.042
Methoxychlor		0.042	U	0.0096	0.042
Toxaphene		0.42	U	0.15	0.42

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	122		69 - 150
Tetrachloro-m-xylene	107		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-006(0-3")

Lab Sample ID: 460-156541-7

Date Sampled: 05/18/2018 1400

Client Matrix: Solid

% Moisture: 15.2

Date Received: 05/18/2018 2030

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B	Analysis Batch: 460-522122	Instrument ID: CPESTGC4
Prep Method: 3546	Prep Batch: 460-521592	Initial Weight/Volume: 15.0233 g
Dilution: 2.0		Final Weight/Volume: 10 mL
Analysis Date: 05/24/2018 1003	Run Type: DL	Injection Volume: 1 uL
Prep Date: 05/22/2018 2340		Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.016	U	0.0027	0.016
4,4'-DDE		0.016	U	0.0019	0.016
4,4'-DDT		0.016	U	0.0029	0.016
Aldrin		0.016	U	0.0024	0.016
alpha-BHC		0.0047	U	0.0016	0.0047
beta-BHC		0.0047	U	0.0018	0.0047
Chlordane (technical)		1.7		0.038	0.16
delta-BHC		0.0047	U	0.00097	0.0047
Dieldrin		0.0047	U	0.0020	0.0047
Endosulfan I		0.016	U	0.0024	0.016
Endosulfan II		0.016	U	0.0041	0.016
Endosulfan sulfate		0.016	U	0.0020	0.016
Endrin		0.016	U	0.0023	0.016
Endrin aldehyde		0.016	U	0.0037	0.016
Endrin ketone		0.016	U	0.0031	0.016
gamma-BHC (Lindane)		0.0047	U	0.0015	0.0047
Heptachlor		0.016	U	0.0019	0.016
Heptachlor epoxide		0.053		0.0024	0.016
Methoxychlor		0.016	U	0.0036	0.016
Toxaphene		0.16	U	0.057	0.16

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	148		69 - 150
Tetrachloro-m-xylene	130		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-007(0-3")**

Lab Sample ID: 460-156541-8

Date Sampled: 05/18/2018 1405

Client Matrix: Solid

% Moisture: 20.3

Date Received: 05/18/2018 2030

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521867

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-521592

Initial Weight/Volume: 15.0496 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/23/2018 1808

Injection Volume: 1 uL

Prep Date: 05/22/2018 2340

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0084	U	0.0014	0.0084
4,4'-DDE		0.0084	U	0.00099	0.0084
4,4'-DDT		0.0084	U	0.0015	0.0084
Aldrin		0.0084	U	0.0013	0.0084
alpha-BHC		0.0025	U	0.00085	0.0025
beta-BHC		0.0025	U	0.00094	0.0025
Chlordane (technical)		0.67		0.020	0.084
delta-BHC		0.0025	U	0.00051	0.0025
Dieldrin		0.0025	U	0.0011	0.0025
Endosulfan I		0.0084	U	0.0013	0.0084
Endosulfan II		0.0084	U	0.0022	0.0084
Endosulfan sulfate		0.0084	U	0.0011	0.0084
Endrin		0.0084	U	0.0012	0.0084
Endrin aldehyde		0.0084	U	0.0020	0.0084
Endrin ketone		0.0084	U	0.0016	0.0084
gamma-BHC (Lindane)		0.0025	U	0.00078	0.0025
Heptachlor		0.0084	U	0.00099	0.0084
Heptachlor epoxide		0.0084	U	0.0013	0.0084
Methoxychlor		0.0084	U	0.0019	0.0084
Toxaphene		0.084	U	0.030	0.084

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	154	X	69 - 150
Tetrachloro-m-xylene	132		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-007(0-3")**

Lab Sample ID: 460-156541-8

Date Sampled: 05/18/2018 1405

Client Matrix: Solid

% Moisture: 20.3

Date Received: 05/18/2018 2030

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-521867

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-521592

Initial Weight/Volume: 15.0496 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/23/2018 1808

Injection Volume: 1 uL

Prep Date: 05/22/2018 2340

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	148		69 - 150
Tetrachloro-m-xylene	119		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-008(0-3")

Lab Sample ID: 460-156541-9

Date Sampled: 05/18/2018 1430

Client Matrix: Solid

% Moisture: 21.9

Date Received: 05/18/2018 2030

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B	Analysis Batch: 460-522122	Instrument ID: CPESTGC4
Prep Method: 3546	Prep Batch: 460-521592	Initial Weight/Volume: 15.0418 g
Dilution: 5.0		Final Weight/Volume: 10 mL
Analysis Date: 05/24/2018 1015	Run Type: DL	Injection Volume: 1 uL
Prep Date: 05/22/2018 2340		Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.043	U	0.0073	0.043
4,4'-DDE		0.043	U	0.0050	0.043
4,4'-DDT		0.043	U	0.0078	0.043
Aldrin		0.043	U	0.0064	0.043
alpha-BHC		0.013	U	0.0043	0.013
beta-BHC		0.013	U	0.0048	0.013
Chlordane (technical)		1.7		0.10	0.43
delta-BHC		0.013	U	0.0026	0.013
Dieldrin		0.013	U	0.0056	0.013
Endosulfan I		0.043	U	0.0065	0.043
Endosulfan II		0.043	U	0.011	0.043
Endosulfan sulfate		0.043	U	0.0054	0.043
Endrin		0.043	U	0.0061	0.043
Endrin aldehyde		0.043	U	0.010	0.043
Endrin ketone		0.043	U	0.0083	0.043
gamma-BHC (Lindane)		0.013	U	0.0040	0.013
Heptachlor		0.043	U	0.0050	0.043
Heptachlor epoxide		0.24		0.0064	0.043
Methoxychlor		0.043	U	0.0098	0.043
Toxaphene		0.43	U	0.15	0.43

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	130		69 - 150
Tetrachloro-m-xylene	135		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-009(0-3")

Lab Sample ID: 460-156541-10

Client Matrix: Solid

% Moisture: 21.6

Date Sampled: 05/18/2018 1435

Date Received: 05/18/2018 2030

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522122

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-521592

Initial Weight/Volume: 15.0422 g

Dilution: 5.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1028

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/22/2018 2340

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.043	U	0.0072	0.043
4,4'-DDE		0.043	U	0.0050	0.043
4,4'-DDT		0.043	U	0.0078	0.043
Aldrin		0.043	U	0.0064	0.043
alpha-BHC		0.013	U	0.0043	0.013
beta-BHC		0.013	U	0.0048	0.013
Chlordane (technical)		1.4		0.10	0.43
delta-BHC		0.013	U	0.0026	0.013
Dieldrin		0.013	U	0.0055	0.013
Endosulfan I		0.043	U	0.0065	0.043
Endosulfan II		0.043	U	0.011	0.043
Endosulfan sulfate		0.043	U	0.0053	0.043
Endrin		0.043	U	0.0061	0.043
Endrin aldehyde		0.043	U	0.010	0.043
Endrin ketone		0.043	U	0.0083	0.043
gamma-BHC (Lindane)		0.013	U	0.0039	0.013
Heptachlor		0.043	U	0.0050	0.043
Heptachlor epoxide		0.28		0.0064	0.043
Methoxychlor		0.043	U	0.0097	0.043
Toxaphene		0.43	U	0.15	0.43

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	139		69 - 150
Tetrachloro-m-xylene	118		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-010(0-3")

Lab Sample ID: 460-156541-11

Date Sampled: 05/18/2018 1440

Client Matrix: Solid

% Moisture: 7.9

Date Received: 05/18/2018 2030

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B	Analysis Batch: 460-522122	Instrument ID: CPESTGC4
Prep Method: 3546	Prep Batch: 460-521592	Initial Weight/Volume: 15.0348 g
Dilution: 10		Final Weight/Volume: 10 mL
Analysis Date: 05/24/2018 1040	Run Type: DL	Injection Volume: 1 uL
Prep Date: 05/22/2018 2340		Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.073	U	0.012	0.073
4,4'-DDE		0.073	U	0.0086	0.073
4,4'-DDT		0.073	U	0.013	0.073
Aldrin		0.073	U	0.011	0.073
alpha-BHC		0.022	U	0.0074	0.022
beta-BHC		0.022	U	0.0081	0.022
Chlordane (technical)		7.7		0.18	0.73
delta-BHC		0.022	U	0.0044	0.022
Dieldrin		0.022	U	0.0094	0.022
Endosulfan I		0.073	U	0.011	0.073
Endosulfan II		0.073	U	0.019	0.073
Endosulfan sulfate		0.073	U	0.0091	0.073
Endrin		0.073	U	0.010	0.073
Endrin aldehyde		0.073	U	0.017	0.073
Endrin ketone		0.073	U	0.014	0.073
gamma-BHC (Lindane)		0.022	U	0.0067	0.022
Heptachlor		0.073	U	0.0086	0.073
Heptachlor epoxide		0.14		0.011	0.073
Methoxychlor		0.073	U	0.017	0.073
Toxaphene		0.73	U	0.26	0.73

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	147		69 - 150
Tetrachloro-m-xylene	143		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-001(0-3")

Lab Sample ID: 460-156541-1

Client Matrix: Solid

% Moisture: 13.7

Date Sampled: 05/18/2018 1145

Date Received: 05/18/2018 2030

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0401 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1603

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.039	U	0.0082	0.039
2,4-D		0.039	U	0.014	0.039
Silvex (2,4,5-TP)		0.039	U	0.0040	0.039

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	102		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-001(0-3")**

Lab Sample ID: 460-156541-1

Date Sampled: 05/18/2018 1145

Client Matrix: Solid

% Moisture: 13.7

Date Received: 05/18/2018 2030

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0401 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1603

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	96		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-002(0-3")

Lab Sample ID: 460-156541-2

Client Matrix: Solid

% Moisture: 17.7

Date Sampled: 05/18/2018 1235

Date Received: 05/18/2018 2030

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1617

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0086	0.040
2,4-D		0.040	U	0.015	0.040
Silvex (2,4,5-TP)		0.040	U	0.0042	0.040

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	128		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-002(0-3")**

Lab Sample ID: 460-156541-2

Date Sampled: 05/18/2018 1235

Client Matrix: Solid

% Moisture: 17.7

Date Received: 05/18/2018 2030

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1617

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	120		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-003(0-3")

Lab Sample ID: 460-156541-3

Client Matrix: Solid

% Moisture: 20.8

Date Sampled: 05/18/2018 1240

Date Received: 05/18/2018 2030

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0340 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1647

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.042	U	0.0089	0.042
2,4-D		0.042	U	0.015	0.042
Silvex (2,4,5-TP)		0.042	U	0.0044	0.042

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	129		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-003(0-3")**

Lab Sample ID: 460-156541-3

Date Sampled: 05/18/2018 1240

Client Matrix: Solid

% Moisture: 20.8

Date Received: 05/18/2018 2030

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0340 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1647

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	128		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-004(0-3")

Lab Sample ID: 460-156541-4

Client Matrix: Solid

% Moisture: 16.1

Date Sampled: 05/18/2018 1250

Date Received: 05/18/2018 2030

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0367 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1702

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0084	0.040
2,4-D		0.040	U	0.014	0.040
Silvex (2,4,5-TP)		0.040	U	0.0041	0.040

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	132		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-004(0-3")**

Lab Sample ID: 460-156541-4

Date Sampled: 05/18/2018 1250

Client Matrix: Solid

% Moisture: 16.1

Date Received: 05/18/2018 2030

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0367 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1702

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	130		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-004(18"-24")

Lab Sample ID: 460-156541-5

Date Sampled: 05/18/2018 1255

Client Matrix: Solid

% Moisture: 13.4

Date Received: 05/18/2018 2030

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0453 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1716

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.038	U	0.0082	0.038
2,4-D		0.038	U	0.014	0.038
Silvex (2,4,5-TP)		0.038	U	0.0040	0.038

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	124		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID:** SS-004(18"-24")

Lab Sample ID: 460-156541-5

Date Sampled: 05/18/2018 1255

Client Matrix: Solid

% Moisture: 13.4

Date Received: 05/18/2018 2030

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0453 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1716

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	115		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-005(0-3")

Lab Sample ID: 460-156541-6

Client Matrix: Solid

% Moisture: 20.8

Date Sampled: 05/18/2018 1350

Date Received: 05/18/2018 2030

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0265 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1731

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.042	U	0.0089	0.042
2,4-D		0.042	U	0.015	0.042
Silvex (2,4,5-TP)		0.042	U	0.0044	0.042
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		133		80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-005(0-3")**

Lab Sample ID: 460-156541-6

Date Sampled: 05/18/2018 1350

Client Matrix: Solid

% Moisture: 20.8

Date Received: 05/18/2018 2030

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0265 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1731

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	98		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-006(0-3")

Lab Sample ID: 460-156541-7

Client Matrix: Solid

% Moisture: 15.2

Date Sampled: 05/18/2018 1400

Date Received: 05/18/2018 2030

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0390 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1746

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.039	U	0.0083	0.039
2,4-D		0.039	U	0.014	0.039
Silvex (2,4,5-TP)		0.039	U	0.0041	0.039
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		150		80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-006(0-3")**

Lab Sample ID: 460-156541-7

Date Sampled: 05/18/2018 1400

Client Matrix: Solid

% Moisture: 15.2

Date Received: 05/18/2018 2030

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0390 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1746

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	138		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-007(0-3")

Lab Sample ID: 460-156541-8

Client Matrix: Solid

% Moisture: 20.3

Date Sampled: 05/18/2018 1405

Date Received: 05/18/2018 2030

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0365 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1800

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.042	U	0.0089	0.042
2,4-D		0.042	U	0.015	0.042
Silvex (2,4,5-TP)		0.042	U	0.0044	0.042
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		138		80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-007(0-3")**

Lab Sample ID: 460-156541-8

Date Sampled: 05/18/2018 1405

Client Matrix: Solid

% Moisture: 20.3

Date Received: 05/18/2018 2030

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0365 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1800

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	136		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-008(0-3")

Lab Sample ID: 460-156541-9

Client Matrix: Solid

% Moisture: 21.9

Date Sampled: 05/18/2018 1430

Date Received: 05/18/2018 2030

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0428 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1815

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.043	U	0.0090	0.043
2,4-D		0.043	U	0.015	0.043
Silvex (2,4,5-TP)		0.043	U	0.0044	0.043

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	138		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-008(0-3")**

Lab Sample ID: 460-156541-9

Date Sampled: 05/18/2018 1430

Client Matrix: Solid

% Moisture: 21.9

Date Received: 05/18/2018 2030

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0428 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1815

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	130		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-009(0-3")

Lab Sample ID: 460-156541-10

Client Matrix: Solid

% Moisture: 21.6

Date Sampled: 05/18/2018 1435

Date Received: 05/18/2018 2030

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0391 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1830

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.042	U	0.0090	0.042
2,4-D		0.042	U	0.015	0.042
Silvex (2,4,5-TP)		0.042	U	0.0044	0.042

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	140		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-009(0-3")**

Lab Sample ID: 460-156541-10

Date Sampled: 05/18/2018 1435

Client Matrix: Solid

% Moisture: 21.6

Date Received: 05/18/2018 2030

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0391 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1830

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	136		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-010(0-3")

Lab Sample ID: 460-156541-11

Client Matrix: Solid

% Moisture: 7.9

Date Sampled: 05/18/2018 1440

Date Received: 05/18/2018 2030

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0346 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1844

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.036	U	0.0077	0.036
2,4-D		0.036	U	0.013	0.036
Silvex (2,4,5-TP)		0.036	U	0.0038	0.036

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	111		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-010(0-3")**

Lab Sample ID: 460-156541-11

Date Sampled: 05/18/2018 1440

Client Matrix: Solid

% Moisture: 7.9

Date Received: 05/18/2018 2030

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-521370

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-521299

Initial Weight/Volume: 30.0346 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/22/2018 1844

Injection Volume: 1 uL

Prep Date: 05/22/2018 0055

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	96		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID:** SS-001(0-3")

Lab Sample ID: 460-156541-1

Client Matrix: Solid

% Moisture: 13.7

Date Sampled: 05/18/2018 1145

Date Received: 05/18/2018 2030

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522231

Instrument ID: ICP4

Prep Method: 3050B

Prep Batch: 460-522105

Lab File ID: 522154.asc

Dilution: 4.0

Initial Weight/Volume: 1.08 g

Analysis Date: 05/24/2018 2146

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0814

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1990		8.8	42.9
Antimony		0.71	J	0.51	4.3
Arsenic		0.84	J	0.79	3.2
Barium		20.0	J	3.5	42.9
Beryllium		0.43	U	0.049	0.43
Cadmium		6.5		0.13	0.86
Calcium		1320		109	1070
Chromium		52.1		0.60	2.1
Cobalt		1.3	J	1.2	10.7
Copper		11.8		1.2	5.4
Iron		4320		5.8	32.2
Lead		17.7		0.65	2.1
Magnesium		551	J	82.7	1070
Manganese		219		0.33	3.2
Nickel		3.5	J	0.81	8.6
Potassium		196	J	57.1	1070
Selenium		4.3	U	1.3	4.3
Silver		2.1	U	0.33	2.1
Sodium		1070	U	82.6	1070
Thallium		4.3	U	1.3	4.3
Vanadium		6.8	J	1.3	10.7
Zinc		57.2		0.55	6.4

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-522195

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522039

Lab File ID: 522024HG1.CSV

Dilution: 20

Initial Weight/Volume: 0.60 g

Analysis Date: 05/24/2018 1147

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0516

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		14.4		0.23	0.39



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-002(0-3")**

Lab Sample ID: 460-156541-2

Date Sampled: 05/18/2018 1235

Client Matrix: Solid

% Moisture: 17.7

Date Received: 05/18/2018 2030

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522231

Instrument ID: ICP4

Prep Method: 3050B

Prep Batch: 460-522105

Lab File ID: 522154.asc

Dilution: 4.0

Initial Weight/Volume: 1.05 g

Analysis Date: 05/24/2018 2201

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0814

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6360		9.5	46.3
Antimony		1.4	J	0.56	4.6
Arsenic		4.4		0.86	3.5
Barium		16.4	J	3.7	46.3
Beryllium		0.46	U	0.053	0.46
Cadmium		0.33	J	0.14	0.93
Calcium		1590		118	1160
Chromium		23.9		0.64	2.3
Cobalt		11.6	U	1.3	11.6
Copper		6.7		1.3	5.8
Iron		6720		6.2	34.7
Lead		20.9		0.70	2.3
Magnesium		595	J	89.2	1160
Manganese		74.7		0.36	3.5
Nickel		3.7	J	0.88	9.3
Potassium		188	J	61.6	1160
Selenium		4.6	U	1.4	4.6
Silver		2.3	U	0.35	2.3
Sodium		1160	U	89.1	1160
Thallium		4.6	U	1.4	4.6
Vanadium		14.6		1.4	11.6
Zinc		31.0		0.60	6.9

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522195

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522039

Lab File ID: 522024HG1.CSV

Dilution: 3.0

Initial Weight/Volume: 0.65 g

Analysis Date: 05/24/2018 1149

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0516

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.6		0.034	0.057



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-003(0-3")

Lab Sample ID: 460-156541-3

Client Matrix: Solid

% Moisture: 20.8

Date Sampled: 05/18/2018 1240

Date Received: 05/18/2018 2030

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522231

Instrument ID: ICP4

Prep Method: 3050B

Prep Batch: 460-522105

Lab File ID: 522154.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/24/2018 2205

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0814

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5900		10.3	50.0
Antimony		0.77	J	0.60	5.0
Arsenic		2.6	J	0.93	3.8
Barium		11.9	J	4.1	50.0
Beryllium		0.50	U	0.058	0.50
Cadmium		1.0	U	0.15	1.0
Calcium		534	J	128	1250
Chromium		6.5		0.69	2.5
Cobalt		12.5	U	1.4	12.5
Copper		5.5	J	1.4	6.3
Iron		8060		6.8	37.5
Lead		22.7		0.76	2.5
Magnesium		552	J	96.4	1250
Manganese		27.1		0.39	3.8
Nickel		3.8	J	0.95	10.0
Potassium		257	J	66.5	1250
Selenium		5.0	U	1.5	5.0
Silver		2.5	U	0.38	2.5
Sodium		1250	U	96.3	1250
Thallium		5.0	U	1.5	5.0
Vanadium		16.6		1.5	12.5
Zinc		13.7		0.65	7.5

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-522195

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522039

Lab File ID: 522024HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.67 g

Analysis Date: 05/24/2018 1156

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0516

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.23		0.011	0.019



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-004(0-3")**

Lab Sample ID: 460-156541-4

Date Sampled: 05/18/2018 1250

Client Matrix: Solid

% Moisture: 16.1

Date Received: 05/18/2018 2030

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522231

Instrument ID: ICP4

Prep Method: 3050B

Prep Batch: 460-522105

Lab File ID: 522154.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/24/2018 2209

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0814

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9660		9.7	47.2
Antimony		1.2	J	0.57	4.7
Arsenic		14.9		0.87	3.5
Barium		35.6	J	3.8	47.2
Beryllium		0.15	J	0.054	0.47
Cadmium		0.47	J	0.14	0.94
Calcium		2050		120	1180
Chromium		44.2		0.65	2.4
Cobalt		3.0	J	1.3	11.8
Copper		18.9		1.3	5.9
Iron		11900		6.4	35.4
Lead		33.9		0.71	2.4
Magnesium		1370		90.9	1180
Manganese		210		0.37	3.5
Nickel		8.1	J	0.90	9.4
Potassium		367	J	62.8	1180
Selenium		4.7	U	1.4	4.7
Silver		2.4	U	0.36	2.4
Sodium		1180	U	90.8	1180
Thallium		4.7	U	1.4	4.7
Vanadium		22.6		1.4	11.8
Zinc		56.8		0.61	7.1

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522195

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522039

Lab File ID: 522024HG1.CSV

Dilution: 20

Initial Weight/Volume: 0.61 g

Analysis Date: 05/24/2018 1158

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0516

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		10.9		0.23	0.40



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-004(18"-24")**

Lab Sample ID: 460-156541-5

Date Sampled: 05/18/2018 1255

Client Matrix: Solid

% Moisture: 13.4

Date Received: 05/18/2018 2030

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522231

Instrument ID: ICP4

Prep Method: 3050B

Prep Batch: 460-522105

Lab File ID: 522154.asc

Dilution: 4.0

Initial Weight/Volume: 1.04 g

Analysis Date: 05/24/2018 2224

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0814

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4070		9.1	44.4
Antimony		4.4	U	0.53	4.4
Arsenic		1.9	J	0.82	3.3
Barium		12.0	J	3.6	44.4
Beryllium		0.44	U	0.051	0.44
Cadmium		0.89	U	0.13	0.89
Calcium		1080	J	113	1110
Chromium		4.5		0.62	2.2
Cobalt		11.1	U	1.3	11.1
Copper		3.2	J	1.3	5.6
Iron		6550		6.0	33.3
Lead		7.6		0.67	2.2
Magnesium		349	J	85.6	1110
Manganese		13.2		0.34	3.3
Nickel		1.9	J	0.84	8.9
Potassium		153	J	59.1	1110
Selenium		1.3	J	1.3	4.4
Silver		2.2	U	0.34	2.2
Sodium		1110	U	85.5	1110
Thallium		4.4	U	1.3	4.4
Vanadium		11.4		1.3	11.1
Zinc		8.0		0.57	6.7

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522195

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522039

Lab File ID: 522024HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 05/24/2018 1200

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0516

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.23		0.011	0.019



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-005(0-3")**

Lab Sample ID: 460-156541-6

Date Sampled: 05/18/2018 1350

Client Matrix: Solid

% Moisture: 20.8

Date Received: 05/18/2018 2030

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522231

Instrument ID: ICP4

Prep Method: 3050B

Prep Batch: 460-522105

Lab File ID: 522154.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/24/2018 2232

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0814

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7000		10.2	49.5
Antimony		1.0	J	0.59	5.0
Arsenic		3.4	J	0.92	3.7
Barium		16.4	J	4.0	49.5
Beryllium		0.50	U	0.057	0.50
Cadmium		0.73	J	0.15	0.99
Calcium		2070		126	1240
Chromium		34.2		0.69	2.5
Cobalt		12.4	U	1.4	12.4
Copper		8.0		1.4	6.2
Iron		8670		6.7	37.2
Lead		20.0		0.75	2.5
Magnesium		722	J	95.5	1240
Manganese		73.0		0.38	3.7
Nickel		3.8	J	0.94	9.9
Potassium		216	J	65.9	1240
Selenium		5.0	U	1.5	5.0
Silver		2.5	U	0.38	2.5
Sodium		1240	U	95.4	1240
Thallium		5.0	U	1.5	5.0
Vanadium		16.8		1.5	12.4
Zinc		33.6		0.64	7.4

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522195

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522039

Lab File ID: 522024HG1.CSV

Dilution: 10

Initial Weight/Volume: 0.61 g

Analysis Date: 05/24/2018 1202

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0516

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		4.2		0.12	0.21



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-006(0-3")**

Lab Sample ID: 460-156541-7

Date Sampled: 05/18/2018 1400

Client Matrix: Solid

% Moisture: 15.2

Date Received: 05/18/2018 2030

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522231

Instrument ID: ICP4

Prep Method: 3050B

Prep Batch: 460-522105

Lab File ID: 522154.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/24/2018 2236

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0814

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2660		9.4	45.8
Antimony		0.57	J	0.55	4.6
Arsenic		0.86	J	0.85	3.4
Barium		10.9	J	3.7	45.8
Beryllium		0.46	U	0.053	0.46
Cadmium		1.0		0.14	0.92
Calcium		695	J	117	1140
Chromium		14.2		0.64	2.3
Cobalt		11.4	U	1.3	11.4
Copper		8.6		1.3	5.7
Iron		4730		6.2	34.3
Lead		7.7		0.69	2.3
Magnesium		454	J	88.3	1140
Manganese		143		0.35	3.4
Nickel		2.6	J	0.87	9.2
Potassium		210	J	60.9	1140
Selenium		4.6	U	1.4	4.6
Silver		2.3	U	0.35	2.3
Sodium		1140	U	88.2	1140
Thallium		4.6	U	1.4	4.6
Vanadium		7.8	J	1.4	11.4
Zinc		37.2		0.59	6.9

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522195

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522039

Lab File ID: 522024HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.67 g

Analysis Date: 05/24/2018 1204

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0516

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.0		0.053	0.090



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-007(0-3")**

Lab Sample ID: 460-156541-8

Date Sampled: 05/18/2018 1405

Client Matrix: Solid

% Moisture: 20.3

Date Received: 05/18/2018 2030

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522231

Instrument ID: ICP4

Prep Method: 3050B

Prep Batch: 460-522105

Lab File ID: 522154.asc

Dilution: 4.0

Initial Weight/Volume: 1.08 g

Analysis Date: 05/24/2018 2240

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0814

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6320		9.5	46.5
Antimony		0.76	J	0.56	4.6
Arsenic		2.5	J	0.86	3.5
Barium		11.0	J	3.8	46.5
Beryllium		0.46	U	0.053	0.46
Cadmium		0.25	J	0.14	0.93
Calcium		999	J	119	1160
Chromium		19.8		0.65	2.3
Cobalt		11.6	U	1.3	11.6
Copper		4.7	J	1.3	5.8
Iron		7710		6.3	34.9
Lead		15.0		0.70	2.3
Magnesium		547	J	89.6	1160
Manganese		71.7		0.36	3.5
Nickel		3.3	J	0.88	9.3
Potassium		188	J	61.8	1160
Selenium		4.6	U	1.4	4.6
Silver		2.3	U	0.35	2.3
Sodium		1160	U	89.5	1160
Thallium		4.6	U	1.4	4.6
Vanadium		14.1		1.4	11.6
Zinc		24.1		0.60	7.0

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522195

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522039

Lab File ID: 522024HG1.CSV

Dilution: 3.0

Initial Weight/Volume: 0.61 g

Analysis Date: 05/24/2018 1207

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0516

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.3		0.037	0.063



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Client Sample ID: SS-008(0-3")**

Lab Sample ID: 460-156541-9

Date Sampled: 05/18/2018 1430

Client Matrix: Solid

% Moisture: 21.9

Date Received: 05/18/2018 2030

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522231

Instrument ID: ICP4

Prep Method: 3050B

Prep Batch: 460-522105

Lab File ID: 522154.asc

Dilution: 4.0

Initial Weight/Volume: 1.05 g

Analysis Date: 05/24/2018 2244

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0814

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8370		10	48.8
Antimony		1.2	J	0.59	4.9
Arsenic		3.0	J	0.90	3.7
Barium		17.4	J	3.9	48.8
Beryllium		0.078	J	0.056	0.49
Cadmium		0.42	J	0.15	0.98
Calcium		1930		124	1220
Chromium		34.3		0.68	2.4
Cobalt		12.2	U	1.4	12.2
Copper		7.4		1.4	6.1
Iron		9840		6.6	36.6
Lead		22.8		0.74	2.4
Magnesium		1010	J	94.0	1220
Manganese		104		0.38	3.7
Nickel		5.2	J	0.93	9.8
Potassium		258	J	64.8	1220
Selenium		4.9	U	1.5	4.9
Silver		2.4	U	0.37	2.4
Sodium		1220	U	93.9	1220
Thallium		4.9	U	1.4	4.9
Vanadium		18.7		1.5	12.2
Zinc		38.7		0.63	7.3

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522195

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522039

Lab File ID: 522024HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.64 g

Analysis Date: 05/24/2018 1209

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0516

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.9		0.060	0.10



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-009(0-3")

Lab Sample ID: 460-156541-10

Client Matrix: Solid

% Moisture: 21.6

Date Sampled: 05/18/2018 1435

Date Received: 05/18/2018 2030

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522231

Instrument ID: ICP4

Prep Method: 3050B

Prep Batch: 460-522105

Lab File ID: 522154.asc

Dilution: 4.0

Initial Weight/Volume: 1.07 g

Analysis Date: 05/24/2018 2248

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0814

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6450		9.8	47.7
Antimony		0.72	J	0.57	4.8
Arsenic		2.1	J	0.88	3.6
Barium		12.7	J	3.9	47.7
Beryllium		0.48	U	0.055	0.48
Cadmium		0.21	J	0.14	0.95
Calcium		1180	J	122	1190
Chromium		18.1		0.66	2.4
Cobalt		11.9	U	1.4	11.9
Copper		4.4	J	1.3	6.0
Iron		6800		6.4	35.8
Lead		13.1		0.72	2.4
Magnesium		543	J	91.9	1190
Manganese		48.0		0.37	3.6
Nickel		3.3	J	0.90	9.5
Potassium		159	J	63.4	1190
Selenium		4.8	U	1.4	4.8
Silver		2.4	U	0.36	2.4
Sodium		1190	U	91.8	1190
Thallium		4.8	U	1.4	4.8
Vanadium		13.6		1.4	11.9
Zinc		19.8		0.62	7.2

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-522195

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522039

Lab File ID: 522024HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.65 g

Analysis Date: 05/24/2018 1211

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0516

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.0		0.059	0.10



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

Client Sample ID: SS-010(0-3")

Lab Sample ID: 460-156541-11

Client Matrix: Solid

% Moisture: 7.9

Date Sampled: 05/18/2018 1440

Date Received: 05/18/2018 2030

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522231

Instrument ID: ICP4

Prep Method: 3050B

Prep Batch: 460-522105

Lab File ID: 522154.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/24/2018 2252

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0814

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1010		8.6	42.2
Antimony		4.2	U	0.51	4.2
Arsenic		3.2	U	0.78	3.2
Barium		8.7	J	3.4	42.2
Beryllium		0.42	U	0.048	0.42
Cadmium		1.9		0.13	0.84
Calcium		698	J	108	1050
Chromium		15.6		0.59	2.1
Cobalt		10.5	U	1.2	10.5
Copper		9.6		1.2	5.3
Iron		2780		5.7	31.6
Lead		5.0		0.64	2.1
Magnesium		357	J	81.3	1050
Manganese		200		0.33	3.2
Nickel		2.3	J	0.80	8.4
Potassium		112	J	56.1	1050
Selenium		4.2	U	1.3	4.2
Silver		2.1	U	0.32	2.1
Sodium		1050	U	81.2	1050
Thallium		4.2	U	1.2	4.2
Vanadium		4.5	J	1.3	10.5
Zinc		44.2		0.54	6.3

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-522195

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522039

Lab File ID: 522024HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.66 g

Analysis Date: 05/24/2018 1214

Final Weight/Volume: 50 mL

Prep Date: 05/24/2018 0516

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.3		0.049	0.084



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

---

### General Chemistry

**Client Sample ID:** SS-001(0-3")

Lab Sample ID: 460-156541-1

Client Matrix: Solid

Date Sampled: 05/18/2018 1145

Date Received: 05/18/2018 2030

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N
Percent Solids	86.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

---

### General Chemistry

**Client Sample ID:** SS-002(0-3")

Lab Sample ID: 460-156541-2

Client Matrix: Solid

Date Sampled: 05/18/2018 1235

Date Received: 05/18/2018 2030

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N
Percent Solids	82.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

---

### General Chemistry

**Client Sample ID:** SS-003(0-3")

Lab Sample ID: 460-156541-3

Client Matrix: Solid

Date Sampled: 05/18/2018 1240

Date Received: 05/18/2018 2030

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N
Percent Solids	79.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

---

### General Chemistry

**Client Sample ID:** SS-004(0-3")

Lab Sample ID: 460-156541-4

Client Matrix: Solid

Date Sampled: 05/18/2018 1250

Date Received: 05/18/2018 2030

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N
Percent Solids	83.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

---

### General Chemistry

**Client Sample ID:** SS-004(18"-24")

**Lab Sample ID:** 460-156541-5

**Client Matrix:** Solid

**Date Sampled:** 05/18/2018 1255

**Date Received:** 05/18/2018 2030

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N
Percent Solids	86.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

---

### General Chemistry

**Client Sample ID:** SS-005(0-3")

Lab Sample ID: 460-156541-6

Client Matrix: Solid

Date Sampled: 05/18/2018 1350

Date Received: 05/18/2018 2030

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N
Percent Solids	79.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

---

### General Chemistry

**Client Sample ID:** SS-006(0-3")

Lab Sample ID: 460-156541-7

Client Matrix: Solid

Date Sampled: 05/18/2018 1400

Date Received: 05/18/2018 2030

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N
Percent Solids	84.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

---

### General Chemistry

**Client Sample ID:** SS-007(0-3")

Lab Sample ID: 460-156541-8

Client Matrix: Solid

Date Sampled: 05/18/2018 1405

Date Received: 05/18/2018 2030

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N
Percent Solids	79.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

---

### General Chemistry

**Client Sample ID:** SS-008(0-3")

Lab Sample ID: 460-156541-9

Client Matrix: Solid

Date Sampled: 05/18/2018 1430

Date Received: 05/18/2018 2030

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	21.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N
Percent Solids	78.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

---

### General Chemistry

**Client Sample ID:** SS-009(0-3")

Lab Sample ID: 460-156541-10

Client Matrix: Solid

Date Sampled: 05/18/2018 1435

Date Received: 05/18/2018 2030

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	21.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N
Percent Solids	78.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156541-1

---

### General Chemistry

**Client Sample ID:** SS-010(0-3")

Lab Sample ID: 460-156541-11

Client Matrix: Solid

Date Sampled: 05/18/2018 1440

Date Received: 05/18/2018 2030

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N
Percent Solids	92.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521183	Analysis Date: 05/21/2018	1653				DryWt Corrected: N



## DATA REPORTING QUALIFIERS

Client: PW Grosser Consulting

Job Number: 460-156541-1

Lab Section	Qualifier	Description
GC Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	F2	MS/MSD RPD exceeds control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
Metals	F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
	U	Indicates the analyte was analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



# QUALITY CONTROL RESULTS



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-521299</b>					
LCS 460-521299/2-A	Lab Control Sample	T	Solid	8151A	
MB 460-521299/1-A	Method Blank	T	Solid	8151A	
460-155680-A-3-X MS	Matrix Spike	T	Solid	8151A	
460-155680-A-3-Y MSD	Matrix Spike Duplicate	T	Solid	8151A	
460-156541-1	SS-001(0-3")	T	Solid	8151A	
460-156541-2	SS-002(0-3")	T	Solid	8151A	
460-156541-3	SS-003(0-3")	T	Solid	8151A	
460-156541-4	SS-004(0-3")	T	Solid	8151A	
460-156541-5	SS-004(18"-24")	T	Solid	8151A	
460-156541-6	SS-005(0-3")	T	Solid	8151A	
460-156541-7	SS-006(0-3")	T	Solid	8151A	
460-156541-8	SS-007(0-3")	T	Solid	8151A	
460-156541-9	SS-008(0-3")	T	Solid	8151A	
460-156541-10	SS-009(0-3")	T	Solid	8151A	
460-156541-11	SS-010(0-3")	T	Solid	8151A	
<b>Analysis Batch:460-521370</b>					
LCS 460-521299/2-A	Lab Control Sample	T	Solid	8151A	460-521299
MB 460-521299/1-A	Method Blank	T	Solid	8151A	460-521299
460-155680-A-3-X MS	Matrix Spike	T	Solid	8151A	460-521299
460-155680-A-3-Y MSD	Matrix Spike Duplicate	T	Solid	8151A	460-521299
460-156541-1	SS-001(0-3")	T	Solid	8151A	460-521299
460-156541-2	SS-002(0-3")	T	Solid	8151A	460-521299
460-156541-3	SS-003(0-3")	T	Solid	8151A	460-521299
460-156541-4	SS-004(0-3")	T	Solid	8151A	460-521299
460-156541-5	SS-004(18"-24")	T	Solid	8151A	460-521299
460-156541-6	SS-005(0-3")	T	Solid	8151A	460-521299
460-156541-7	SS-006(0-3")	T	Solid	8151A	460-521299
460-156541-8	SS-007(0-3")	T	Solid	8151A	460-521299
460-156541-9	SS-008(0-3")	T	Solid	8151A	460-521299
460-156541-10	SS-009(0-3")	T	Solid	8151A	460-521299
460-156541-11	SS-010(0-3")	T	Solid	8151A	460-521299



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-521592</b>					
LCS 460-521592/2-A	Lab Control Sample	T	Solid	3546	
MB 460-521592/1-A	Method Blank	T	Solid	3546	
460-156484-J-1-B MS	Matrix Spike	T	Solid	3546	
460-156484-J-1-C MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156541-1DL	SS-001(0-3")	T	Solid	3546	
460-156541-2DL	SS-002(0-3")	T	Solid	3546	
460-156541-3	SS-003(0-3")	T	Solid	3546	
460-156541-4	SS-004(0-3")	T	Solid	3546	
460-156541-5	SS-004(18"-24")	T	Solid	3546	
460-156541-6DL	SS-005(0-3")	T	Solid	3546	
460-156541-7DL	SS-006(0-3")	T	Solid	3546	
460-156541-8	SS-007(0-3")	T	Solid	3546	
460-156541-9DL	SS-008(0-3")	T	Solid	3546	
460-156541-10DL	SS-009(0-3")	T	Solid	3546	
460-156541-11DL	SS-010(0-3")	T	Solid	3546	
<b>Analysis Batch:460-521709</b>					
LCS 460-521592/2-A	Lab Control Sample	T	Solid	8081B	460-521592
MB 460-521592/1-A	Method Blank	T	Solid	8081B	460-521592
460-156484-J-1-B MS	Matrix Spike	T	Solid	8081B	460-521592
460-156484-J-1-C MSD	Matrix Spike Duplicate	T	Solid	8081B	460-521592
<b>Analysis Batch:460-521867</b>					
460-156541-3	SS-003(0-3")	T	Solid	8081B	460-521592
460-156541-4	SS-004(0-3")	T	Solid	8081B	460-521592
460-156541-5	SS-004(18"-24")	T	Solid	8081B	460-521592
460-156541-8	SS-007(0-3")	T	Solid	8081B	460-521592
<b>Analysis Batch:460-522122</b>					
460-156541-1DL	SS-001(0-3")	T	Solid	8081B	460-521592
460-156541-2DL	SS-002(0-3")	T	Solid	8081B	460-521592
460-156541-6DL	SS-005(0-3")	T	Solid	8081B	460-521592
460-156541-7DL	SS-006(0-3")	T	Solid	8081B	460-521592
460-156541-9DL	SS-008(0-3")	T	Solid	8081B	460-521592
460-156541-10DL	SS-009(0-3")	T	Solid	8081B	460-521592
460-156541-11DL	SS-010(0-3")	T	Solid	8081B	460-521592

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-522039</b>					
LCSSRM 460-522039/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	
MB 460-522039/1-A	Method Blank	T	Solid	7471B	
460-156330-B-10-D DU	Duplicate	T	Solid	7471B	
460-156330-B-10-E MS	Matrix Spike	T	Solid	7471B	
460-156330-B-10-F MSD	Matrix Spike Duplicate	T	Solid	7471B	
460-156541-1	SS-001(0-3")	T	Solid	7471B	
460-156541-2	SS-002(0-3")	T	Solid	7471B	
460-156541-3	SS-003(0-3")	T	Solid	7471B	
460-156541-4	SS-004(0-3")	T	Solid	7471B	
460-156541-5	SS-004(18"-24")	T	Solid	7471B	
460-156541-6	SS-005(0-3")	T	Solid	7471B	
460-156541-7	SS-006(0-3")	T	Solid	7471B	
460-156541-8	SS-007(0-3")	T	Solid	7471B	
460-156541-9	SS-008(0-3")	T	Solid	7471B	
460-156541-10	SS-009(0-3")	T	Solid	7471B	
460-156541-11	SS-010(0-3")	T	Solid	7471B	
<b>Prep Batch: 460-522105</b>					
LCSSRM 460-522105/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-522105/1-A ^2	Method Blank	T	Solid	3050B	
460-156541-1	SS-001(0-3")	T	Solid	3050B	
460-156541-1DU	Duplicate	T	Solid	3050B	
460-156541-1MS	Matrix Spike	T	Solid	3050B	
460-156541-2	SS-002(0-3")	T	Solid	3050B	
460-156541-3	SS-003(0-3")	T	Solid	3050B	
460-156541-4	SS-004(0-3")	T	Solid	3050B	
460-156541-5	SS-004(18"-24")	T	Solid	3050B	
460-156541-6	SS-005(0-3")	T	Solid	3050B	
460-156541-7	SS-006(0-3")	T	Solid	3050B	
460-156541-8	SS-007(0-3")	T	Solid	3050B	
460-156541-9	SS-008(0-3")	T	Solid	3050B	
460-156541-10	SS-009(0-3")	T	Solid	3050B	
460-156541-11	SS-010(0-3")	T	Solid	3050B	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:460-522195</b>					
LCSSRM 460-522039/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	460-522039
MB 460-522039/1-A	Method Blank	T	Solid	7471B	460-522039
460-156330-B-10-D DU	Duplicate	T	Solid	7471B	460-522039
460-156330-B-10-E MS	Matrix Spike	T	Solid	7471B	460-522039
460-156330-B-10-F MSD	Matrix Spike Duplicate	T	Solid	7471B	460-522039
460-156541-1	SS-001(0-3")	T	Solid	7471B	460-522039
460-156541-2	SS-002(0-3")	T	Solid	7471B	460-522039
460-156541-3	SS-003(0-3")	T	Solid	7471B	460-522039
460-156541-4	SS-004(0-3")	T	Solid	7471B	460-522039
460-156541-5	SS-004(18"-24")	T	Solid	7471B	460-522039
460-156541-6	SS-005(0-3")	T	Solid	7471B	460-522039
460-156541-7	SS-006(0-3")	T	Solid	7471B	460-522039
460-156541-8	SS-007(0-3")	T	Solid	7471B	460-522039
460-156541-9	SS-008(0-3")	T	Solid	7471B	460-522039
460-156541-10	SS-009(0-3")	T	Solid	7471B	460-522039
460-156541-11	SS-010(0-3")	T	Solid	7471B	460-522039
<b>Analysis Batch:460-522231</b>					
LCSSRM 460-522105/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-522105
MB 460-522105/1-A ^2	Method Blank	T	Solid	6010C	460-522105
460-156541-1	SS-001(0-3")	T	Solid	6010C	460-522105
460-156541-1DU	Duplicate	T	Solid	6010C	460-522105
460-156541-1MS	Matrix Spike	T	Solid	6010C	460-522105
460-156541-2	SS-002(0-3")	T	Solid	6010C	460-522105
460-156541-3	SS-003(0-3")	T	Solid	6010C	460-522105
460-156541-4	SS-004(0-3")	T	Solid	6010C	460-522105
460-156541-5	SS-004(18"-24")	T	Solid	6010C	460-522105
460-156541-6	SS-005(0-3")	T	Solid	6010C	460-522105
460-156541-7	SS-006(0-3")	T	Solid	6010C	460-522105
460-156541-8	SS-007(0-3")	T	Solid	6010C	460-522105
460-156541-9	SS-008(0-3")	T	Solid	6010C	460-522105
460-156541-10	SS-009(0-3")	T	Solid	6010C	460-522105
460-156541-11	SS-010(0-3")	T	Solid	6010C	460-522105

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:460-521183</b>					
460-155810-A-11 DU	Duplicate	T	Solid	Moisture	
460-156541-1	SS-001(0-3")	T	Solid	Moisture	
460-156541-2	SS-002(0-3")	T	Solid	Moisture	
460-156541-3	SS-003(0-3")	T	Solid	Moisture	
460-156541-4	SS-004(0-3")	T	Solid	Moisture	
460-156541-5	SS-004(18"-24")	T	Solid	Moisture	
460-156541-6	SS-005(0-3")	T	Solid	Moisture	
460-156541-7	SS-006(0-3")	T	Solid	Moisture	
460-156541-8	SS-007(0-3")	T	Solid	Moisture	
460-156541-9	SS-008(0-3")	T	Solid	Moisture	
460-156541-10	SS-009(0-3")	T	Solid	Moisture	
460-156541-11	SS-010(0-3")	T	Solid	Moisture	

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Surrogate Recovery Report

#### 8081B Organochlorine Pesticides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCBP1 %Rec	DCBP2 %Rec	TCX1 %Rec	TCX2 %Rec
460-156541-1 DL	SS-001(0-3") DL	0X		0X	
460-156541-2 DL	SS-002(0-3") DL		130		119
460-156541-3	SS-003(0-3")	134	137	113	111
460-156541-4	SS-004(0-3")	85	105	75	74
460-156541-5	SS-004(18"-24")	148	150	122	149
460-156541-6 DL	SS-005(0-3") DL	122			107
460-156541-7 DL	SS-006(0-3") DL		148	130	
460-156541-8	SS-007(0-3")	154X	148	119	132
460-156541-9 DL	SS-008(0-3") DL	130		135	
460-156541-10 DL	SS-009(0-3") DL		139		118
460-156541-11 DL	SS-010(0-3") DL		147		143
MB 460-521592/1-A		92	93	81	84
LCS 460-521592/2-A		86	88	80	80
460-156484-J-1-B MS		134	141	140	122
460-156484-J-1-C MSD		137	134	131	118

##### Surrogate

##### Acceptance Limits

DCBP = DCB Decachlorobiphenyl

69-150

TCX = Tetrachloro-m-xylene

74-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Surrogate Recovery Report

#### 8151A Herbicides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCPAA1	DCPAA2
		%Rec	%Rec
460-156541-1	SS-001(0-3")	102	96
460-156541-2	SS-002(0-3")	128	120
460-156541-3	SS-003(0-3")	129	128
460-156541-4	SS-004(0-3")	130	132
460-156541-5	SS-004(18"-24")	115	124
460-156541-6	SS-005(0-3")	98	133
460-156541-7	SS-006(0-3")	150	138
460-156541-8	SS-007(0-3")	138	136
460-156541-9	SS-008(0-3")	130	138
460-156541-10	SS-009(0-3")	136	140
460-156541-11	SS-010(0-3")	96	111
MB 460-521299/1-A		120	137
LCS 460-521299/2-A		141	144
460-155680-A-3-X MS		137	156X
460-155680-A-3-Y MSD		134	151X

Surrogate	Acceptance Limits
DCPAA = 2,4-Dichlorophenylacetic acid	80-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Method Blank - Batch: 460-521592

### Method: 8081B Preparation: 3546

Lab Sample ID: MB 460-521592/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/23/2018 1134  
Prep Date: 05/22/2018 2340  
Leach Date: N/A

Analysis Batch: 460-521709  
Prep Batch: 460-521592  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC4  
Lab File ID: P4077831.D  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.0067	U	0.0011	0.0067
4,4'-DDE	0.0067	U	0.00079	0.0067
4,4'-DDT	0.0067	U	0.0012	0.0067
Aldrin	0.0067	U	0.0010	0.0067
alpha-BHC	0.0020	U	0.00068	0.0020
beta-BHC	0.0020	U	0.00075	0.0020
Chlordane (technical)	0.067	U	0.016	0.067
delta-BHC	0.0020	U	0.00041	0.0020
Dieldrin	0.0020	U	0.00087	0.0020
Endosulfan I	0.0067	U	0.0010	0.0067
Endosulfan II	0.0067	U	0.0017	0.0067
Endosulfan sulfate	0.0067	U	0.00084	0.0067
Endrin	0.0067	U	0.00096	0.0067
Endrin aldehyde	0.0067	U	0.0016	0.0067
Endrin ketone	0.0067	U	0.0013	0.0067
gamma-BHC (Lindane)	0.0020	U	0.00062	0.0020
Heptachlor	0.0067	U	0.00079	0.0067
Heptachlor epoxide	0.0067	U	0.0010	0.0067
Methoxychlor	0.0067	U	0.0015	0.0067
Toxaphene	0.067	U	0.024	0.067

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	93	69 - 150
Tetrachloro-m-xylene	84	74 - 150

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	92	69 - 150
Tetrachloro-m-xylene	81	74 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Lab Control Sample - Batch: 460-521592

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-521592/2-A	Analysis Batch:	460-521709	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-521592	Lab File ID:	P4077832.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/23/2018 1146	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/22/2018 2340			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.119	89	67 - 130	
4,4'-DDE	0.133	0.131	98	70 - 127	
4,4'-DDT	0.133	0.136	102	70 - 122	
Aldrin	0.133	0.129	97	66 - 137	
alpha-BHC	0.133	0.128	96	65 - 142	
beta-BHC	0.133	0.128	96	70 - 132	
delta-BHC	0.133	0.135	101	65 - 136	
Dieldrin	0.133	0.138	104	70 - 134	
Endosulfan I	0.133	0.133	100	70 - 136	
Endosulfan II	0.133	0.134	100	72 - 127	
Endosulfan sulfate	0.133	0.119	89	71 - 128	
Endrin	0.133	0.132	99	74 - 129	
Endrin aldehyde	0.133	0.126	95	71 - 129	
Endrin ketone	0.133	0.126	94	68 - 135	
gamma-BHC (Lindane)	0.133	0.128	96	68 - 136	
Heptachlor	0.133	0.125	94	68 - 132	
Heptachlor epoxide	0.133	0.131	98	72 - 131	
Methoxychlor	0.133	0.108	81	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	88		69 - 150		
Tetrachloro-m-xylene	80		74 - 150		

### Lab Control Sample - Batch: 460-521592

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-521592/2-A	Analysis Batch:	460-521709	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-521592	Lab File ID:	P4077832.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/23/2018 1146	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/22/2018 2340			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.118	89	67 - 130	
4,4'-DDT	0.133	0.119	89	70 - 122	
Aldrin	0.133	0.115	86	66 - 137	
alpha-BHC	0.133	0.119	89	65 - 142	
beta-BHC	0.133	0.114	86	70 - 132	
delta-BHC	0.133	0.123	93	65 - 136	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Lab Control Sample - Batch: 460-521592

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-521592/2-A	Analysis Batch:	460-521709	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-521592	Lab File ID:	P4077832.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/23/2018 1146	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/22/2018 2340			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dieldrin	0.133	0.130	98	70 - 134	
Endosulfan I	0.133	0.127	95	70 - 136	
Endosulfan II	0.133	0.125	93	72 - 127	
Endosulfan sulfate	0.133	0.116	87	71 - 128	
Endrin	0.133	0.129	97	74 - 129	
Endrin aldehyde	0.133	0.119	89	71 - 129	
Endrin ketone	0.133	0.116	87	68 - 135	
gamma-BHC (Lindane)	0.133	0.114	85	68 - 136	
Heptachlor	0.133	0.116	87	68 - 132	
Heptachlor epoxide	0.133	0.125	93	72 - 131	
Methoxychlor	0.133	0.106	79	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	86		69 - 150		
Tetrachloro-m-xylene	80		74 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-521592

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156484-J-1-B MS	Analysis Batch: 460-521709	Instrument ID: CPESTGC4
Client Matrix: Solid	Prep Batch: 460-521592	Lab File ID: P4077837.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0234 g
Analysis Date: 05/23/2018 1317		Final Weight/Volume: 10 mL
Prep Date: 05/22/2018 2340		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

MSD Lab Sample ID: 460-156484-J-1-C MSD	Analysis Batch: 460-521709	Instrument ID: CPESTGC4
Client Matrix: Solid	Prep Batch: 460-521592	Lab File ID: P4077838.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0491 g
Analysis Date: 05/23/2018 1328		Final Weight/Volume: 10 mL
Prep Date: 05/22/2018 2340		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	159	145	67 - 130	9	30	F1	F1
4,4'-DDE	164	161	70 - 127	2	30	F1	F1
4,4'-DDT	173	172	70 - 122	1	30	F1	F1
Aldrin	163	157	66 - 137	4	30	F1	F1
alpha-BHC	156	147	65 - 142	6	30	F1	F1
beta-BHC	102	81	70 - 132	24	30		
delta-BHC	98	75	65 - 136	27	30		
Dieldrin	155	144	70 - 134	7	30	F1	F1
Endosulfan I	155	148	70 - 136	5	30	F1	F1
Endosulfan II	91	78	72 - 127	15	30		
Endosulfan sulfate	25	17	71 - 128	38	30	F1	p F2 F1
Endrin	158	151	74 - 129	5	30	F1	F1
Endrin aldehyde	16	12	71 - 129	25	30	F1	p F1
Endrin ketone	40	11	68 - 135	112	30	F1	p F2 F1
gamma-BHC (Lindane)	149	136	68 - 136	9	30	F1	
Heptachlor	157	150	68 - 132	5	30	F1	F1
Heptachlor epoxide	155	147	72 - 131	5	30	F1	F1
Methoxychlor	93	85	63 - 135	10	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	141		137	69 - 150			
Tetrachloro-m-xylene	140		131	74 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-521592

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156484-J-1-B MS	Analysis Batch: 460-521709	Instrument ID: CPESTGC4
Client Matrix: Solid	Prep Batch: 460-521592	Lab File ID: P4077837.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0234 g
Analysis Date: 05/23/2018 1317		Final Weight/Volume: 10 mL
Prep Date: 05/22/2018 2340		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

MSD Lab Sample ID: 460-156484-J-1-C MSD	Analysis Batch: 460-521709	Instrument ID: CPESTGC4
Client Matrix: Solid	Prep Batch: 460-521592	Lab File ID: P4077838.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0491 g
Analysis Date: 05/23/2018 1328		Final Weight/Volume: 10 mL
Prep Date: 05/22/2018 2340		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	150	143	67 - 130	5	30	F1	F1
4,4'-DDE	161	156	70 - 127	3	30	F1	F1
4,4'-DDT	163	163	70 - 122	0	30	F1	F1
Aldrin	153	149	66 - 137	3	30	F1	F1
alpha-BHC	149	137	65 - 142	9	30	F1	
beta-BHC	99	79	70 - 132	22	30		
delta-BHC	83	64	65 - 136	26	30		F1
Dieldrin	153	144	70 - 134	6	30	F1	F1
Endosulfan I	153	145	70 - 136	5	30	F1	F1
Endosulfan II	86	68	72 - 127	24	30		F1
Endosulfan sulfate	20	27	71 - 128	33	30	F1	F1 F2
Endrin	158	143	74 - 129	10	30	F1	F1
Endrin aldehyde	15	19	71 - 129	24	30	F1	F1
Endrin ketone	33	32	68 - 135	4	30	F1	F1
gamma-BHC (Lindane)	136	126	68 - 136	8	30		
Heptachlor	147	143	68 - 132	3	30	F1	F1
Heptachlor epoxide	152	143	72 - 131	7	30	F1	F1
Methoxychlor	88	83	63 - 135	6	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	134		134	69 - 150			
Tetrachloro-m-xylene	122		118	74 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Method Blank - Batch: 460-521299

### Method: 8151A

### Preparation: 8151A

Lab Sample ID: MB 460-521299/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/22/2018 1308  
Prep Date: 05/22/2018 0055  
Leach Date: N/A

Analysis Batch: 460-521370  
Prep Batch: 460-521299  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC3  
Lab File ID: ZR151362.D  
Initial Weight/Volume: 30.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	0.033	U	0.0071	0.033
2,4-D	0.033	U	0.012	0.033
Silvex (2,4,5-TP)	0.033	U	0.0035	0.033

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	137	80 - 150

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	120	80 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Lab Control Sample - Batch: 460-521299

Method: 8151A

Preparation: 8151A

Lab Sample ID:	LCS 460-521299/2-A	Analysis Batch:	460-521370	Instrument ID:	CPESTGC3
Client Matrix:	Solid	Prep Batch:	460-521299	Lab File ID:	ZR151363.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0000 g
Analysis Date:	05/22/2018 1323	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/22/2018 0055			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	0.0833	0.106	128	71 - 141	
2,4-D	0.333	0.346	104	47 - 140	E
Silvex (2,4,5-TP)	0.0833	0.116	140	80 - 150	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	144	80 - 150

### Lab Control Sample - Batch: 460-521299

Method: 8151A

Preparation: 8151A

Lab Sample ID:	LCS 460-521299/2-A	Analysis Batch:	460-521370	Instrument ID:	CPESTGC3
Client Matrix:	Solid	Prep Batch:	460-521299	Lab File ID:	ZR151363.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0000 g
Analysis Date:	05/22/2018 1323	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/22/2018 0055			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	0.0833	0.0947	114	71 - 141	
2,4-D	0.333	0.335	100	47 - 140	
Silvex (2,4,5-TP)	0.0833	0.112	135	80 - 150	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	141	80 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-521299

Method: 8151A  
Preparation: 8151A

MS Lab Sample ID: 460-155680-A-3-X MS	Analysis Batch: 460-521370	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-521299	Lab File ID: ZR151366.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0416 g
Analysis Date: 05/22/2018 1405		Final Weight/Volume: 10 mL
Prep Date: 05/22/2018 0055		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

MSD Lab Sample ID: 460-155680-A-3-Y MSD	Analysis Batch: 460-521370	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-521299	Lab File ID: ZR151367.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0394 g
Analysis Date: 05/22/2018 1420		Final Weight/Volume: 10 mL
Prep Date: 05/22/2018 0055		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
2,4,5-T	121	114	71 - 141	6	30		
2,4-D	96	103	47 - 140	7	30		E
Silvex (2,4,5-TP)	89	131	80 - 150	38	30	p	F2
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
2,4-Dichlorophenylacetic acid	156	X	151	X	80 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-521299

Method: 8151A  
Preparation: 8151A

MS Lab Sample ID: 460-155680-A-3-X MS	Analysis Batch: 460-521370	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-521299	Lab File ID: ZR151366.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0416 g
Analysis Date: 05/22/2018 1405		Final Weight/Volume: 10 mL
Prep Date: 05/22/2018 0055		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

MSD Lab Sample ID: 460-155680-A-3-Y MSD	Analysis Batch: 460-521370	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-521299	Lab File ID: ZR151367.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0394 g
Analysis Date: 05/22/2018 1420		Final Weight/Volume: 10 mL
Prep Date: 05/22/2018 0055		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
2,4,5-T	110	109	71 - 141	1	30		
2,4-D	73	73	47 - 140	1	30		
Silvex (2,4,5-TP)	135	88	80 - 150	42	30		F2
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
2,4-Dichlorophenylacetic acid	137		134	80 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Method Blank - Batch: 460-522105

### Method: 6010C

### Preparation: 3050B

Lab Sample ID: MB 460-522105/1-A ^2  
Client Matrix: Solid  
Dilution: 2.0  
Analysis Date: 05/24/2018 2134  
Prep Date: 05/24/2018 0814  
Leach Date: N/A

Analysis Batch: 460-522231  
Prep Batch: 460-522105  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP4  
Lab File ID: 522154.asc  
Initial Weight/Volume: 1.00 g  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	4.1	20.0
Antimony	2.0	U	0.24	2.0
Arsenic	1.5	U	0.37	1.5
Barium	20.0	U	1.6	20.0
Beryllium	0.20	U	0.023	0.20
Cadmium	0.40	U	0.060	0.40
Calcium	500	U	51.0	500
Chromium	1.0	U	0.28	1.0
Cobalt	5.0	U	0.57	5.0
Copper	2.5	U	0.57	2.5
Iron	15.0	U	2.7	15.0
Lead	1.0	U	0.30	1.0
Magnesium	500	U	38.6	500
Manganese	1.5	U	0.16	1.5
Nickel	4.0	U	0.38	4.0
Potassium	500	U	26.6	500
Selenium	2.0	U	0.61	2.0
Silver	1.0	U	0.15	1.0
Sodium	500	U	38.5	500
Thallium	2.0	U	0.59	2.0
Vanadium	5.0	U	0.60	5.0
Zinc	3.0	U	0.26	3.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### LCS-Certified Reference Material - Batch: 460-522105

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-522105/2-~~A~~ Analysis Batch: 460-522231  
 Client Matrix: Solid Prep Batch: 460-522105  
 Dilution: 4.0 Leach Batch: N/A  
 Analysis Date: 05/24/2018 2138 Units: mg/Kg  
 Prep Date: 05/24/2018 0814  
 Leach Date: N/A

Instrument ID: ICP4  
 Lab File ID: 522154.asc  
 Initial Weight/Volume: 1.02 g  
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	8720	7210	82.7	51.7 - 147.9	
Antimony	94.1	78.65	83.6	0.1 - 206.2	
Arsenic	58.5	53.90	92.1	82.6 - 117.4	
Barium	183	186.6	102.0	82.0 - 118.6	
Beryllium	59.7	62.96	105.5	82.6 - 117.6	
Cadmium	249	253.1	101.7	82.3 - 118.1	
Calcium	4600	4424	96.2	81.1 - 118.9	
Chromium	64.9	64.41	99.2	81.4 - 118.6	
Cobalt	45.0	45.82	101.8	83.6 - 116.4	
Copper	113	112.9	99.9	82.7 - 116.8	
Iron	13600	12680	93.2	58.8 - 141.2	
Lead	161	165.7	102.9	81.4 - 118.6	
Magnesium	2310	2065	89.4	75.8 - 124.2	
Manganese	219	213.9	97.7	81.7 - 118.7	
Nickel	147	155.2	105.6	82.3 - 118.4	
Potassium	2030	1766	87.0	70.0 - 130.0	
Selenium	145	139.0	95.9	77.9 - 121.4	
Silver	51.0	49.25	96.6	78.6 - 121.4	
Sodium	2430	2386	98.2	73.3 - 126.3	
Thallium	188	204.1	108.6	79.8 - 119.7	
Vanadium	125	121.9	97.5	78.3 - 121.6	
Zinc	121	126.9	104.9	80.2 - 119.0	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Matrix Spike - Batch: 460-522105

**Method: 6010C**  
**Preparation: 3050B**

Lab Sample ID:	460-156541-1	Analysis Batch:	460-522231	Instrument ID:	ICP4
Client Matrix:	Solid	Prep Batch:	460-522105	Lab File ID:	522154.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	05/24/2018 2154	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/24/2018 0814				
Leach Date:	N/A				

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	1990		215	2295	141	75 - 125	4
Antimony	0.71	J	53.6	41.70	76	75 - 125	
Arsenic	0.84	J	215	197.7	92	75 - 125	
Barium	20.0	J	215	234.5	100	75 - 125	
Beryllium	0.43	U	5.36	5.41	101	75 - 125	
Cadmium	6.5		5.36	10.88	82	75 - 125	
Calcium	1320		2150	3162	86	75 - 125	
Chromium	52.1		21.5	71.61	91	75 - 125	
Cobalt	1.3	J	53.6	56.29	102	75 - 125	
Copper	11.8		26.8	36.62	92	75 - 125	
Iron	4320		107	3951	-344	75 - 125	4
Lead	17.7		53.6	69.35	96	75 - 125	
Magnesium	551	J	2150	2506	91	75 - 125	
Manganese	219		53.6	264.5	85	75 - 125	4
Nickel	3.5	J	53.6	58.13	102	75 - 125	
Potassium	196	J	2150	2212	94	75 - 125	
Selenium	4.3	U	215	203.0	95	75 - 125	
Silver	2.1	U	5.36	5.26	98	75 - 125	
Sodium	1070	U	2150	2034	95	75 - 125	
Thallium	4.3	U	215	233.4	109	75 - 125	
Vanadium	6.8	J	53.6	59.92	99	75 - 125	
Zinc	57.2		53.6	113.1	104	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Duplicate - Batch: 460-522105**

**Method: 6010C**  
**Preparation: 3050B**

Lab Sample ID: 460-156541-1  
Client Matrix: Solid  
Dilution: 4.0  
Analysis Date: 05/24/2018 2142  
Prep Date: 05/24/2018 0814  
Leach Date: N/A

Analysis Batch: 460-522231  
Prep Batch: 460-522105  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP4  
Lab File ID: 522154.asc  
Initial Weight/Volume: 1.04 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	1990		2080	4	20	
Antimony	0.71	J	0.874	21	20	J F5
Arsenic	0.84	J	3.3	NC	20	U
Barium	20.0	J	20.93	4	20	J
Beryllium	0.43	U	0.0688	NC	20	J
Cadmium	6.5		6.84	5	20	
Calcium	1320		1377	4	20	
Chromium	52.1		54.96	5	20	
Cobalt	1.3	J	1.37	3	20	J
Copper	11.8		12.44	5	20	
Iron	4320		4536	5	20	
Lead	17.7		18.83	6	20	
Magnesium	551	J	583.9	6	20	J
Manganese	219		228.1	4	20	
Nickel	3.5	J	3.70	6	20	J
Potassium	196	J	212.6	8	20	J
Selenium	4.3	U	4.5	NC	20	U
Silver	2.1	U	2.2	NC	20	U
Sodium	1070	U	1110	NC	20	U
Thallium	4.3	U	4.5	NC	20	U
Vanadium	6.8	J	7.30	7	20	J
Zinc	57.2		60.33	5	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

### Method Blank - Batch: 460-522039

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	MB 460-522039/1-A	Analysis Batch:	460-522195	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-522039	Lab File ID:	522024HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/24/2018 0955	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/24/2018 0516				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-522039

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	LCSSRM 460-522039/2-A	Analysis Batch:	460-522195	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-522039	Lab File ID:	522024HG1.CSV
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/24/2018 0957	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/24/2018 0516				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	12.15	103.0	70.3 - 129.7	

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-522039

**Method: 7471B**  
**Preparation: 7471B**

MS Lab Sample ID:	460-156330-B-10-E MS	Analysis Batch:	460-522195	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-522039	Lab File ID:	522024HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.67 g
Analysis Date:	05/24/2018 1003			Final Weight/Volume:	50 mL
Prep Date:	05/24/2018 0516				
Leach Date:	N/A				

MSD Lab Sample ID:	460-156330-B-10-F MSD	Analysis Batch:	460-522195	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-522039	Lab File ID:	522024HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.67 g
Analysis Date:	05/24/2018 1005			Final Weight/Volume:	50 mL
Prep Date:	05/24/2018 0516				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	113	114	75 - 125	1	20		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Duplicate - Batch: 460-522039**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-156330-B-10-D DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 1001  
Prep Date: 05/24/2018 0516  
Leach Date: N/A

Analysis Batch: 460-522195  
Prep Batch: 460-522039  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 522024HG1.CSV  
Initial Weight/Volume: 0.67 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.015	J	0.0188	25	20	F5



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156541-1

**Duplicate - Batch: 460-521183**

**Method: Moisture  
Preparation: N/A**

Lab Sample ID:	460-155810-A-11 DU	Analysis Batch:	460-521183	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/21/2018 1653	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	13.6	12.8	6	20	
Percent Solids	86.4	87.2	1	20	



# TestAmerica

NYSC

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 2

Name (for report and invoice) <b>Jennifer Lewis</b>		Samplers Name (Printed) <b>Nick Iannucci</b>		Site/Project Identification <b>RS1801</b>	
Company <b>PW Grossa Consulting</b>		P. O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input type="checkbox"/> Other: <input type="checkbox"/>	
Address <b>630 Johnson Ave Ste 7</b>		City <b>Bohemia</b>		State <b>NY</b>	
Phone <b>(631) 589-6353</b>		Fax		LAB USE ONLY Project No:	
Analyst Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 5 days		Analysis Requested (ENTER % BELOW TO INDICATE REQUEST) Herb <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> Mercury <input checked="" type="checkbox"/>		Job No: <b>156841</b>	
Sample Identification	Date	Time	Matrix	No. of Cont.	Sample Numbers
55.001 (0-3")	5/18/18	1145	S	1	1
55.002 (0-3")		1235			2
55.003 (0-3")		1240			3
55.004 (0-3")		1250			4
55.004 (18"-24")		1255			5
55.005 (0-3")		1350			6
55.006 (0-3")		1400			7
55.007 (0-3")		1405			8
55.008 (0-3")		1430			9
55.009 (0-3")		1435			10

Preservation Used: 1 = ICE, 2 = HCl, 3 = H<sub>2</sub>SO<sub>4</sub>, 4 = HNO<sub>3</sub>, 5 = NaOH  
Soil: ☐ Water: ☐

6 = Other ☐ 7 = Other ☐



460-156541 Chain of Custody

### Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by 	Company <b>PWGL</b>	Date / Time <b>5/18/18 1530</b>	Received by 	Company <b>PWGL</b>
Relinquished by 	Company <b>PA</b>	Date / Time <b>5/18/18 1720</b>	Received by 	Company <b>PA</b>
Relinquished by 	Company <b>F. W.</b>	Date / Time <b>5/18/18 1230</b>	Received by 	Company <b>PA 601</b>
Relinquished by 	Company	Date / Time	Received by	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).  
Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)









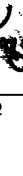
THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 2 of 2[illegible]

### Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by 	Company PWSL	Date / Time 5/18/18 15:30	Received by 	Company 
Relinquished by 	Company VCL	Date / Time 5/14/18 17:00	Received by 	Company T, H
Relinquished by 	Company T, H	Date / Time 5/18/18 20:10	Received by 	Company TH 007
Relinquished by	Company	Date / Time	Received by	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132)  
Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)







## Login Sample Receipt Checklist

Client: PW Grosser Consulting

Job Number: 460-156541-1

Login Number: 156541

List Source: TestAmerica Edison

List Number: 1

Creator: Villanueva, Angelica P

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## ANALYTICAL REPORT

Job Number: 460-156630-1

Job Description: RSL1801 - Island Hills Golf Course

For:  
PW Grosser Consulting  
630 Johnson Ave  
Suite 7  
Bohemia, NY 11716  
Attention: Ms. Jennifer Lewis



Approved for release.  
Thomas A Chupela  
Project Management Assistant I  
5/30/2018 3:45 PM

---

Designee for  
Melissa Haas, Project Manager I  
777 New Durham Road, Edison, NJ, 08817  
(203)944-1310  
melissa.haas@testamericainc.com  
05/30/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LA000132

**TestAmerica Laboratories, Inc.**

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817  
Tel (732) 549-3900 Fax (732) 549-3679 [www.testamericainc.com](http://www.testamericainc.com)





Job Number: 460-156630-1

Job Description: RSL1801 - Island Hills Golf Course

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Approved for release.  
Thomas A. Chupela  
Project Management Assistant I  
5/30/2018 3:45 PM

---

Designee for  
Melissa Haas



## CASE NARRATIVE

**Client: PW Grosser Consulting**

**Project: RSL1801 - Island Hills Golf Course**

**Report Number: 460-156630-1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 5/21/2018 8:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

### **Receipt Exceptions**

The Chain-of-Custody (COC) was improperly completed. The sample IDs should have hyphens instead of periods (i.e. SS-011 instead of SS.011)

Per client request, the contingent samples on hold were moved to a -2 job number to be reported separately from the samples that were analyzed upon receipt.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples SS-011 (0-3") (460-156630-1), SS-011 (18"-24") (460-156630-2), SS-019 (0-3") (460-156630-11), SS-021 (0-3") (460-156630-13), SS-022 (0-3") (460-156630-15), SS-023 (18"-24") (460-156630-17), SS-024 (0-3") (460-156630-18) and DUP-002 (460-156630-19) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 05/23/2018 and analyzed on 05/26/2018 and 05/27/2018.

The continuing calibration verification (CCV) associated with batch 460-522864 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Internal standard (ISTD) response for the following sample was outside control limits: SS-011 (0-3") (460-156630-1). The sample was re-analyzed with concurring results in batch 522921.

Methylene Chloride and Trichlorofluoromethane were detected in method blank MB 460-522864/7 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples EB-002 (460-156630-20) and Trip Blank (460-156630-21) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 05/25/2018.

The continuing calibration verification (CCV) analyzed in batch 460-522339 was outside the method criteria for the following analytes:



Chloromethane and Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Acetone was detected in method blank MB 460-522339/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

#### **SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples SS-011 (0-3") (460-156630-1), SS-011 (18"-24") (460-156630-2), SS-019 (0-3") (460-156630-11), SS-021 (0-3") (460-156630-13), SS-022 (0-3") (460-156630-15), SS-023 (18"-24") (460-156630-17), SS-024 (0-3") (460-156630-18) and DUP-002 (460-156630-19) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 05/23/2018 and analyzed on 05/24/2018 and 05/25/2018.

The continuing calibration verification (CCV) associated with batch 460-522419 recovered above the upper control limit for Caprolactam. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 460-522419/3).

The continuing calibration verification (CCV) analyzed in batch 460-522419 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane]. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Surrogates recoveries for the following laboratory control sample (LCS) associated with batch 460-521793 were outside the upper control limits. Sample has been qualified and reported. (LCS 460-521793/2-A)

The continuing calibration verification (CCV) analyzed in 460-522029 was outside the method criteria for the following analyte(s): Di-n-octyl phthalate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Several analytes failed the recovery criteria low for the Matrix Spike/Matrix Spike Duplicate (MS/MSD) of sample 460-156230-2 in batch 460-522029.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

#### **SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)**

Sample EB-002 (460-156630-20) was analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared and analyzed on 05/23/2018.

The continuing calibration verification (CCV) associated with batch 460-521850 recovered above the upper control limit for < Di-n-octyl phthalate>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 460-521850/2).

Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: EB-002 (460-156630-20). These results have been reported and qualified.

The surrogate recovery for the LCSD associated with preparation batch 460-521687 and analytical batch 460-521850 was outside the upper control limits. (LCSD 460-521687/5-A)

The surrogate recovery for the blank associated with preparation batch 460-521687 and analytical batch 460-521850 was outside the upper control limits.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-521687 and analytical batch 460-521850 recovered outside control limits for the following analytes: 1,2-Diphenylhydrazine, Bis(2-chloroethoxy)methane and Di-n-octyl phthalate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-521687 and analytical



batch 460-521850 recovered outside control limits for the following analytes: Benzaldehyde. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

#### **PESTICIDES**

Samples SS-011 (0-3") (460-156630-1), SS-011 (18"-24") (460-156630-2), SS-012 (0-3") (460-156630-3), SS-013 (0-3") (460-156630-4), SS-014 (0-3") (460-156630-5), SS-015 (0-3") (460-156630-6), SS-016 (0-3") (460-156630-7), SS-017 (0-3") (460-156630-8), SS-017 (18"-24") (460-156630-9), SS-018 (0-3") (460-156630-10), SS-019 (0-3") (460-156630-11), SS-020 (0-3") (460-156630-12), SS-021 (0-3") (460-156630-13), SS-021 (18"-24") (460-156630-14), SS-022 (0-3") (460-156630-15), SS-023 (0-3") (460-156630-16), SS-023 (18"-24") (460-156630-17), SS-024 (0-3") (460-156630-18) and DUP-002 (460-156630-19) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 05/23/2018 and analyzed on 05/24/2018 and 05/25/2018.

Tetrachloro-m-xylene surrogate recovery for the following samples was outside acceptance limits (low biased) on the primary column: SS-023 (0-3") (460-156630-16). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Tetrachloro-m-xylene surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column: SS-015 (0-3") (460-156630-6). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

DCB Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column: SS-011 (0-3") (460-156630-1). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for DUP-002 (460-156630-19).

DCB Decachlorobiphenyl failed the surrogate recovery criteria low for SS-011 (0-3")MS (460-156630-1MS) and SS-011 (0-3")MSD (460-156630-1MSD).

Several analytes failed the recovery criteria low for the MS/MSD of sample SS-011 (0-3")MS (460-156630-1) in batch 460-522463.

Refer to the QC report for details.

Samples SS-015 (0-3") (460-156630-6)[5X], SS-018 (0-3") (460-156630-10)[10X], SS-019 (0-3") (460-156630-11)[20X], SS-021 (0-3") (460-156630-13)[20X] and DUP-002 (460-156630-19)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

#### **PESTICIDES**

Sample EB-002 (460-156630-20) was analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 05/23/2018 and analyzed on 05/25/2018.

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

#### **POLYCHLORINATED BIPHENYLS**

Samples SS-011 (0-3") (460-156630-1), SS-011 (18"-24") (460-156630-2), SS-019 (0-3") (460-156630-11), SS-021 (0-3") (460-156630-13), SS-022 (0-3") (460-156630-15), SS-023 (18"-24") (460-156630-17), SS-024 (0-3") (460-156630-18) and DUP-002 (460-156630-19) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 05/23/2018 and analyzed on 05/24/2018.

The Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: DUP-002 (460-156630-19). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: SS-019 (0-3") (460-156630-11). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Refer to the QC report for details.



No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

#### **POLYCHLORINATED BIPHENYLS (PCBS)**

Sample EB-002 (460-156630-20) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 05/23/2018 and analyzed on 05/24/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

#### **CHLORINATED HERBICIDES**

Samples SS-011 (0-3") (460-156630-1), SS-011 (18"-24") (460-156630-2), SS-012 (0-3") (460-156630-3), SS-013 (0-3") (460-156630-4), SS-014 (0-3") (460-156630-5), SS-015 (0-3") (460-156630-6), SS-016 (0-3") (460-156630-7), SS-017 (0-3") (460-156630-8), SS-017 (18"-24") (460-156630-9), SS-018 (0-3") (460-156630-10), SS-019 (0-3") (460-156630-11), SS-020 (0-3") (460-156630-12), SS-021 (0-3") (460-156630-13), SS-021 (18"-24") (460-156630-14), SS-022 (0-3") (460-156630-15), SS-023 (0-3") (460-156630-16), SS-023 (18"-24") (460-156630-17), SS-024 (0-3") (460-156630-18) and DUP-002 (460-156630-19) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 05/24/2018 and analyzed on 05/25/2018.

2,4-Dichlorophenylacetic acid surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: SS-018 (0-3") (460-156630-10) and SS-022 (0-3") (460-156630-15). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

2,4-Dichlorophenylacetic acid surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: SS-020 (0-3") (460-156630-12). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The closing continuing calibration verification (CCVC) associated with batch 522453 recovered above the upper control limit for 2,4-D, Silvex (2,4,5-TP) and 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported

Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

#### **CHLORINATED HERBICIDES**

Sample EB-002 (460-156630-20) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 05/24/2018 and analyzed on 05/25/2018.

The laboratory control sample duplicate (LCSD) for 522026 recovered outside control limits for the following analytes: 2,4-D. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL METALS (ICP)**

Samples SS-011 (0-3") (460-156630-1), SS-011 (18"-24") (460-156630-2), SS-012 (0-3") (460-156630-3), SS-013 (0-3") (460-156630-4), SS-014 (0-3") (460-156630-5), SS-015 (0-3") (460-156630-6), SS-016 (0-3") (460-156630-7), SS-017 (0-3") (460-156630-8), SS-017 (18"-24") (460-156630-9), SS-018 (0-3") (460-156630-10), SS-019 (0-3") (460-156630-11), SS-020 (0-3") (460-156630-12), SS-021 (0-3") (460-156630-13), SS-021 (18"-24") (460-156630-14), SS-022 (0-3") (460-156630-15), SS-023 (0-3") (460-156630-16), SS-023 (18"-24") (460-156630-17), SS-024 (0-3") (460-156630-18) and DUP-002 (460-156630-19) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 05/27/2018 and analyzed on 05/27/2018 and 05/28/2018.

Aluminum, Iron and Manganese failed the recovery criteria low for the MS of sample SS-011 (18"-24")MS (460-156630-2) in batch 460-522986. Calcium failed the recovery criteria high.

Barium, Magnesium and Manganese exceeded the RPD limit for the duplicate of sample SS-011 (18"-24")DU (460-156630-2).

Refer to the QC report for details.

Samples SS-011 (0-3") (460-156630-1)[4X], SS-011 (18"-24") (460-156630-2)[4X], SS-012 (0-3") (460-156630-3)[4X], SS-013 (0-3") (460-156630-4)[4X], SS-014 (0-3") (460-156630-5)[4X], SS-015 (0-3") (460-156630-6)[4X], SS-016 (0-3") (460-156630-7)[4X], SS-017



(0-3") (460-156630-8)[4X], SS-017 (18"-24") (460-156630-9)[4X], SS-018 (0-3") (460-156630-10)[4X], SS-019 (0-3") (460-156630-11)[4X], SS-020 (0-3") (460-156630-12)[4X], SS-021 (0-3") (460-156630-13)[4X], SS-021 (18"-24") (460-156630-14)[4X], SS-022 (0-3") (460-156630-15)[4X], SS-023 (0-3") (460-156630-16)[4X], SS-023 (18"-24") (460-156630-17)[4X], SS-024 (0-3") (460-156630-18)[4X] and DUP-002 (460-156630-19)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Total Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL METALS (ICP/MS)**

Sample EB-002 (460-156630-20) was analyzed for Total Metals (ICP/MS) in accordance with EPA SW-846 Method 6020A. The samples were prepared and analyzed on 05/27/2018.

Calcium failed the recovery criteria high for the MS of sample 460-156156-2 in batch 460-523033.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY**

Sample EB-002 (460-156630-20) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 05/23/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY**

Samples SS-011 (0-3") (460-156630-1), SS-011 (18"-24") (460-156630-2), SS-012 (0-3") (460-156630-3), SS-013 (0-3") (460-156630-4), SS-014 (0-3") (460-156630-5), SS-015 (0-3") (460-156630-6), SS-016 (0-3") (460-156630-7), SS-017 (0-3") (460-156630-8), SS-017 (18"-24") (460-156630-9), SS-018 (0-3") (460-156630-10), SS-019 (0-3") (460-156630-11), SS-020 (0-3") (460-156630-12), SS-021 (0-3") (460-156630-13), SS-021 (18"-24") (460-156630-14), SS-022 (0-3") (460-156630-15), SS-023 (0-3") (460-156630-16), SS-023 (18"-24") (460-156630-17), SS-024 (0-3") (460-156630-18) and DUP-002 (460-156630-19) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 05/25/2018.

Samples SS-012 (0-3") (460-156630-3)[10X], SS-014 (0-3") (460-156630-5)[10X], SS-015 (0-3") (460-156630-6)[20X], SS-018 (0-3") (460-156630-10)[20X], SS-019 (0-3") (460-156630-11)[100X], SS-021 (0-3") (460-156630-13)[20X], SS-021 (18"-24") (460-156630-14)[2X], SS-022 (0-3") (460-156630-15)[10X], SS-023 (0-3") (460-156630-16)[10X] and DUP-002 (460-156630-19)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

#### **PERCENT SOLIDS/PERCENT MOISTURE**

Samples SS-011 (0-3") (460-156630-1), SS-011 (18"-24") (460-156630-2), SS-012 (0-3") (460-156630-3), SS-013 (0-3") (460-156630-4), SS-014 (0-3") (460-156630-5), SS-015 (0-3") (460-156630-6), SS-016 (0-3") (460-156630-7), SS-017 (0-3") (460-156630-8), SS-017 (18"-24") (460-156630-9), SS-018 (0-3") (460-156630-10), SS-019 (0-3") (460-156630-11), SS-020 (0-3") (460-156630-12), SS-021 (0-3") (460-156630-13), SS-021 (18"-24") (460-156630-14), SS-022 (0-3") (460-156630-15), SS-023 (0-3") (460-156630-16), SS-023 (18"-24") (460-156630-17), SS-024 (0-3") (460-156630-18) and DUP-002 (460-156630-19) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 05/23/2018.

The sample duplicate precision for the following sample associated with analytical batch 460-521897 was outside control limits: SS-017 (18"-24") (460-156630-9), SS-018 (0-3") (460-156630-10), SS-019 (0-3") (460-156630-11), SS-020 (0-3") (460-156630-12), SS-021 (0-3") (460-156630-13), SS-021 (18"-24") (460-156630-14), SS-022 (0-3") (460-156630-15), SS-023 (0-3") (460-156630-16), SS-023 (18"-24") (460-156630-17), SS-024 (0-3") (460-156630-18), DUP-002 (460-156630-19), (460-156619-C-3), (460-156619-A-3 DU), (460-156619-A-3 MS) and (460-156630-D-19 DU).

Refer to the QC report for details.

No other difficulties were encountered during the %solids/moisture analysis.

All other quality control parameters were within the acceptance limits.



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-1</b>	<b>SS-011 (0-3")</b>					
Methylene Chloride		0.00071	J B	0.00077	mg/Kg	8260C
m-Xylene & p-Xylene		0.00023	J	0.00077	mg/Kg	8260C
o-Xylene		0.000094	J	0.00077	mg/Kg	8260C
Tetrachloroethene		0.00075	J	0.00077	mg/Kg	8260C
2-Methylnaphthalene		0.010	J	0.36	mg/Kg	8270D
Benzo[a]anthracene		0.16		0.036	mg/Kg	8270D
Benzo[a]pyrene		0.18		0.036	mg/Kg	8270D
Benzo[b]fluoranthene		0.29		0.036	mg/Kg	8270D
Benzo[g,h,i]perylene		0.10	J	0.36	mg/Kg	8270D
Benzo[k]fluoranthene		0.088		0.036	mg/Kg	8270D
Bis(2-ethylhexyl) phthalate		1.2		0.36	mg/Kg	8270D
Butyl benzyl phthalate		0.10	J	0.36	mg/Kg	8270D
Caprolactam		0.11	J	0.36	mg/Kg	8270D
Chrysene		0.19	J	0.36	mg/Kg	8270D
Fluoranthene		0.32	J	0.36	mg/Kg	8270D
Indeno[1,2,3-cd]pyrene		0.12		0.036	mg/Kg	8270D
Naphthalene		0.013	J	0.36	mg/Kg	8270D
Phenanthrene		0.16	J	0.36	mg/Kg	8270D
Pyrene		0.31	J	0.36	mg/Kg	8270D
4,4'-DDT		0.0039	J F1	0.0073	mg/Kg	8081B
Chlordane (technical)		0.11		0.073	mg/Kg	8081B
Dieldrin		0.0076	F1	0.0022	mg/Kg	8081B
Heptachlor epoxide		0.0029	J F1	0.0073	mg/Kg	8081B
Aluminum		4210		43.2	mg/Kg	6010C
Arsenic		2.1	J	3.2	mg/Kg	6010C
Barium		27.2	J	43.2	mg/Kg	6010C
Beryllium		0.22	J	0.43	mg/Kg	6010C
Calcium		15900		1080	mg/Kg	6010C
Chromium		9.4		2.2	mg/Kg	6010C
Cobalt		2.1	J	10.8	mg/Kg	6010C
Copper		11.9		5.4	mg/Kg	6010C
Iron		6540		32.4	mg/Kg	6010C
Lead		38.4		2.2	mg/Kg	6010C
Magnesium		2990		1080	mg/Kg	6010C
Manganese		89.4		3.2	mg/Kg	6010C
Nickel		6.7	J	8.6	mg/Kg	6010C
Potassium		348	J	1080	mg/Kg	6010C
Vanadium		12.9		10.8	mg/Kg	6010C
Zinc		44.6		6.5	mg/Kg	6010C
Mercury		0.28		0.017	mg/Kg	7471B
Percent Moisture		8.3		1.0	%	Moisture
Percent Solids		91.7		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-2</b>	<b>SS-011 (18"-24")</b>					
Acetone		0.0054		0.0044	mg/Kg	8260C
Methylene Chloride		0.00083	J B	0.00088	mg/Kg	8260C
m-Xylene & p-Xylene		0.00026	J	0.00088	mg/Kg	8260C
o-Xylene		0.000096	J	0.00088	mg/Kg	8260C
Benzo[a]anthracene		0.026	J	0.035	mg/Kg	8270D
Bis(2-ethylhexyl) phthalate		0.13	J	0.35	mg/Kg	8270D
Fluoranthene		0.037	J	0.35	mg/Kg	8270D
Indeno[1,2,3-cd]pyrene		0.018	J	0.035	mg/Kg	8270D
Phenanthrene		0.022	J	0.35	mg/Kg	8270D
Pyrene		0.036	J	0.35	mg/Kg	8270D
4,4'-DDT		0.059		0.0072	mg/Kg	8081B
Chlordane (technical)		0.28		0.072	mg/Kg	8081B
Heptachlor epoxide		0.0040	J	0.0072	mg/Kg	8081B
Aluminum		3580		42.9	mg/Kg	6010C
Arsenic		2.4	J	3.2	mg/Kg	6010C
Barium		26.0	J	42.9	mg/Kg	6010C
Beryllium		0.22	J	0.43	mg/Kg	6010C
Calcium		7780	F1	1070	mg/Kg	6010C
Chromium		7.0		2.1	mg/Kg	6010C
Cobalt		2.0	J	10.7	mg/Kg	6010C
Copper		9.0		5.4	mg/Kg	6010C
Iron		5860		32.2	mg/Kg	6010C
Lead		27.6		2.1	mg/Kg	6010C
Magnesium		1250		1070	mg/Kg	6010C
Manganese		135	F1	3.2	mg/Kg	6010C
Nickel		4.7	J	8.6	mg/Kg	6010C
Potassium		269	J	1070	mg/Kg	6010C
Vanadium		10.4	J	10.7	mg/Kg	6010C
Zinc		31.7		6.4	mg/Kg	6010C
Mercury		0.12		0.018	mg/Kg	7471B
Percent Moisture		6.8		1.0	%	Moisture
Percent Solids		93.2		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-3</b>	<b>SS-012 (0-3")</b>					
Chlordane (technical)		1.1		0.11	mg/Kg	8081B
Heptachlor epoxide		0.33		0.011	mg/Kg	8081B
Aluminum		7290		64.3	mg/Kg	6010C
Arsenic		3.6	J	4.8	mg/Kg	6010C
Barium		18.1	J	64.3	mg/Kg	6010C
Beryllium		0.23	J	0.64	mg/Kg	6010C
Cadmium		0.50	J	1.3	mg/Kg	6010C
Calcium		1770		1610	mg/Kg	6010C
Chromium		38.8		3.2	mg/Kg	6010C
Copper		6.3	J	8.0	mg/Kg	6010C
Iron		7500		48.2	mg/Kg	6010C
Lead		29.3		3.2	mg/Kg	6010C
Magnesium		700	J	1610	mg/Kg	6010C
Manganese		89.0		4.8	mg/Kg	6010C
Nickel		3.8	J	12.9	mg/Kg	6010C
Potassium		197	J	1610	mg/Kg	6010C
Vanadium		17.3		16.1	mg/Kg	6010C
Zinc		33.7		9.6	mg/Kg	6010C
Mercury		6.4		0.26	mg/Kg	7471B
Percent Moisture		38.4		1.0	%	Moisture
Percent Solids		61.6		1.0	%	Moisture
<b>460-156630-4</b>	<b>SS-013 (0-3")</b>					
Aluminum		8390		56.7	mg/Kg	6010C
Arsenic		2.3	J	4.3	mg/Kg	6010C
Barium		13.1	J	56.7	mg/Kg	6010C
Beryllium		0.25	J	0.57	mg/Kg	6010C
Calcium		192	J	1420	mg/Kg	6010C
Chromium		9.2		2.8	mg/Kg	6010C
Copper		3.5	J	7.1	mg/Kg	6010C
Iron		8510		42.5	mg/Kg	6010C
Lead		11.7		2.8	mg/Kg	6010C
Magnesium		688	J	1420	mg/Kg	6010C
Manganese		36.6		4.3	mg/Kg	6010C
Nickel		4.2	J	11.3	mg/Kg	6010C
Potassium		211	J	1420	mg/Kg	6010C
Vanadium		17.3		14.2	mg/Kg	6010C
Zinc		13.5		8.5	mg/Kg	6010C
Mercury		0.050		0.024	mg/Kg	7471B
Percent Moisture		31.5		1.0	%	Moisture
Percent Solids		68.5		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-5</b>	<b>SS-014 (0-3")</b>					
4,4'-DDT		0.0099		0.0082	mg/Kg	8081B
Chlordane (technical)		0.47		0.082	mg/Kg	8081B
Dieldrin		0.026		0.0025	mg/Kg	8081B
Heptachlor epoxide		0.25		0.0082	mg/Kg	8081B
Aluminum		4660		47.9	mg/Kg	6010C
Arsenic		2.4	J	3.6	mg/Kg	6010C
Barium		16.6	J	47.9	mg/Kg	6010C
Beryllium		0.17	J	0.48	mg/Kg	6010C
Cadmium		0.42	J	0.96	mg/Kg	6010C
Calcium		1320		1200	mg/Kg	6010C
Chromium		32.4		2.4	mg/Kg	6010C
Copper		5.2	J	6.0	mg/Kg	6010C
Iron		6110		35.9	mg/Kg	6010C
Lead		21.3		2.4	mg/Kg	6010C
Magnesium		510	J	1200	mg/Kg	6010C
Manganese		856		3.6	mg/Kg	6010C
Nickel		4.2	J	9.6	mg/Kg	6010C
Potassium		158	J	1200	mg/Kg	6010C
Vanadium		13.8		12.0	mg/Kg	6010C
Zinc		30.8		7.2	mg/Kg	6010C
Mercury		5.3		0.19	mg/Kg	7471B
Percent Moisture		18.9		1.0	%	Moisture
Percent Solids		81.1		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-6</b>	<b>SS-015 (0-3")</b>					
Chlordane (technical)		4.9		0.39	mg/Kg	8081B
Heptachlor epoxide		0.26		0.039	mg/Kg	8081B
Aluminum		1370		45.1	mg/Kg	6010C
Arsenic		1.3	J	3.4	mg/Kg	6010C
Barium		14.9	J	45.1	mg/Kg	6010C
Beryllium		0.10	J	0.45	mg/Kg	6010C
Cadmium		4.6		0.90	mg/Kg	6010C
Calcium		2260		1130	mg/Kg	6010C
Chromium		35.1		2.3	mg/Kg	6010C
Copper		13.5		5.6	mg/Kg	6010C
Iron		3670		33.8	mg/Kg	6010C
Lead		14.5		2.3	mg/Kg	6010C
Magnesium		679	J	1130	mg/Kg	6010C
Manganese		301		3.4	mg/Kg	6010C
Nickel		2.8	J	9.0	mg/Kg	6010C
Potassium		146	J	1130	mg/Kg	6010C
Vanadium		5.7	J	11.3	mg/Kg	6010C
Zinc		72.1		6.8	mg/Kg	6010C
Mercury		16.0		0.36	mg/Kg	7471B
Percent Moisture		13.8		1.0	%	Moisture
Percent Solids		86.2		1.0	%	Moisture
<b>460-156630-7</b>	<b>SS-016 (0-3")</b>					
Aluminum		7270		57.2	mg/Kg	6010C
Arsenic		3.4	J	4.3	mg/Kg	6010C
Barium		17.6	J	57.2	mg/Kg	6010C
Beryllium		0.21	J	0.57	mg/Kg	6010C
Calcium		445	J	1430	mg/Kg	6010C
Chromium		7.9		2.9	mg/Kg	6010C
Copper		4.8	J	7.2	mg/Kg	6010C
Iron		9140		42.9	mg/Kg	6010C
Lead		22.3		2.9	mg/Kg	6010C
Magnesium		606	J	1430	mg/Kg	6010C
Manganese		57.3		4.3	mg/Kg	6010C
Nickel		4.0	J	11.4	mg/Kg	6010C
Potassium		209	J	1430	mg/Kg	6010C
Vanadium		17.4		14.3	mg/Kg	6010C
Zinc		18.5		8.6	mg/Kg	6010C
Mercury		0.046		0.025	mg/Kg	7471B
Percent Moisture		30.8		1.0	%	Moisture
Percent Solids		69.2		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-8</b>	<b>SS-017 (0-3")</b>					
Heptachlor epoxide		0.0061	J	0.0092	mg/Kg	8081B
Aluminum		5880		53.5	mg/Kg	6010C
Arsenic		2.8	J	4.0	mg/Kg	6010C
Barium		9.5	J	53.5	mg/Kg	6010C
Beryllium		0.16	J	0.54	mg/Kg	6010C
Calcium		441	J	1340	mg/Kg	6010C
Chromium		6.5		2.7	mg/Kg	6010C
Copper		2.8	J	6.7	mg/Kg	6010C
Iron		6920		40.2	mg/Kg	6010C
Lead		17.3		2.7	mg/Kg	6010C
Magnesium		470	J	1340	mg/Kg	6010C
Manganese		29.2		4.0	mg/Kg	6010C
Nickel		2.9	J	10.7	mg/Kg	6010C
Potassium		144	J	1340	mg/Kg	6010C
Vanadium		13.1	J	13.4	mg/Kg	6010C
Zinc		12.9		8.0	mg/Kg	6010C
Mercury		0.14		0.022	mg/Kg	7471B
Percent Moisture		27.5		1.0	%	Moisture
Percent Solids		72.5		1.0	%	Moisture
<b>460-156630-9</b>	<b>SS-017 (18"-24")</b>					
Aluminum		6380		47.2	mg/Kg	6010C
Arsenic		1.6	J	3.5	mg/Kg	6010C
Barium		9.5	J	47.2	mg/Kg	6010C
Beryllium		0.18	J	0.47	mg/Kg	6010C
Calcium		176	J	1180	mg/Kg	6010C
Chromium		7.0		2.4	mg/Kg	6010C
Copper		1.7	J	5.9	mg/Kg	6010C
Iron		6790		35.4	mg/Kg	6010C
Lead		6.0		2.4	mg/Kg	6010C
Magnesium		537	J	1180	mg/Kg	6010C
Manganese		31.7		3.5	mg/Kg	6010C
Nickel		3.3	J	9.4	mg/Kg	6010C
Potassium		130	J	1180	mg/Kg	6010C
Vanadium		11.3	J	11.8	mg/Kg	6010C
Zinc		8.7		7.1	mg/Kg	6010C
Mercury		0.026		0.020	mg/Kg	7471B
Percent Moisture		17.7		1.0	%	Moisture
Percent Solids		82.3		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-10</b>	<b>SS-018 (0-3")</b>					
beta-BHC		0.061		0.024	mg/Kg	8081B
Chlordane (technical)		9.7		0.79	mg/Kg	8081B
Heptachlor epoxide		0.60		0.079	mg/Kg	8081B
Aluminum		1820		45.9	mg/Kg	6010C
Arsenic		1.5	J	3.4	mg/Kg	6010C
Barium		17.1	J	45.9	mg/Kg	6010C
Beryllium		0.14	J	0.46	mg/Kg	6010C
Cadmium		4.6		0.92	mg/Kg	6010C
Calcium		1160		1150	mg/Kg	6010C
Chromium		44.6		2.3	mg/Kg	6010C
Cobalt		1.4	J	11.5	mg/Kg	6010C
Copper		11.4		5.7	mg/Kg	6010C
Iron		4180		34.5	mg/Kg	6010C
Lead		18.9		2.3	mg/Kg	6010C
Magnesium		521	J	1150	mg/Kg	6010C
Manganese		245		3.4	mg/Kg	6010C
Nickel		3.5	J	9.2	mg/Kg	6010C
Potassium		179	J	1150	mg/Kg	6010C
Vanadium		6.7	J	11.5	mg/Kg	6010C
Zinc		60.8		6.9	mg/Kg	6010C
Mercury		15.4		0.40	mg/Kg	7471B
Percent Moisture		15.5		1.0	%	Moisture
Percent Solids		84.5		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-11</b>	<b>SS-019 (0-3")</b>					
Methylene Chloride		0.0016	B	0.0011	mg/Kg	8260C
m-Xylene & p-Xylene		0.00049	J	0.0011	mg/Kg	8260C
o-Xylene		0.00021	J	0.0011	mg/Kg	8260C
Benzo[a]anthracene		0.020	J	0.040	mg/Kg	8270D
Fluoranthene		0.022	J	0.40	mg/Kg	8270D
beta-BHC		0.15		0.048	mg/Kg	8081B
Chlordane (technical)		26		1.6	mg/Kg	8081B
Heptachlor epoxide		0.98		0.16	mg/Kg	8081B
Aluminum		2930		47.8	mg/Kg	6010C
Arsenic		8.7		3.6	mg/Kg	6010C
Barium		24.5	J	47.8	mg/Kg	6010C
Beryllium		0.23	J	0.48	mg/Kg	6010C
Cadmium		6.9		0.96	mg/Kg	6010C
Calcium		1740		1190	mg/Kg	6010C
Chromium		71.7		2.4	mg/Kg	6010C
Cobalt		1.7	J	11.9	mg/Kg	6010C
Copper		13.7		6.0	mg/Kg	6010C
Iron		5120		35.8	mg/Kg	6010C
Lead		74.6		2.4	mg/Kg	6010C
Magnesium		674	J	1190	mg/Kg	6010C
Manganese		201		3.6	mg/Kg	6010C
Nickel		4.4	J	9.6	mg/Kg	6010C
Potassium		261	J	1190	mg/Kg	6010C
Vanadium		8.6	J	11.9	mg/Kg	6010C
Zinc		75.9		7.2	mg/Kg	6010C
Mercury		44.4		2.0	mg/Kg	7471B
Percent Moisture		17.1		1.0	%	Moisture
Percent Solids		82.9		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-12</b>	<b>SS-020 (0-3")</b>					
Aluminum		9340		47.3	mg/Kg	6010C
Arsenic		3.4	J	3.5	mg/Kg	6010C
Barium		22.5	J	47.3	mg/Kg	6010C
Beryllium		0.32	J	0.47	mg/Kg	6010C
Calcium		600	J	1180	mg/Kg	6010C
Chromium		10.6		2.4	mg/Kg	6010C
Cobalt		2.6	J	11.8	mg/Kg	6010C
Copper		4.9	J	5.9	mg/Kg	6010C
Iron		10700		35.5	mg/Kg	6010C
Lead		16.8		2.4	mg/Kg	6010C
Magnesium		1070	J	1180	mg/Kg	6010C
Manganese		75.8		3.5	mg/Kg	6010C
Nickel		6.1	J	9.5	mg/Kg	6010C
Potassium		232	J	1180	mg/Kg	6010C
Vanadium		18.6		11.8	mg/Kg	6010C
Zinc		20.1		7.1	mg/Kg	6010C
Mercury		0.051		0.021	mg/Kg	7471B
Percent Moisture		18.6		1.0	%	Moisture
Percent Solids		81.4		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-13</b>	<b>SS-021 (0-3")</b>					
m-Xylene & p-Xylene		0.00038	J	0.00093	mg/Kg	8260C
o-Xylene		0.00013	J	0.00093	mg/Kg	8260C
Benzo[a]anthracene		0.014	J	0.038	mg/Kg	8270D
Chrysene		0.013	J	0.38	mg/Kg	8270D
Fluoranthene		0.017	J	0.38	mg/Kg	8270D
Hexachlorobenzene		0.024	J	0.038	mg/Kg	8270D
Chlordane (technical)		17		1.5	mg/Kg	8081B
Heptachlor epoxide		0.81		0.15	mg/Kg	8081B
Aluminum		1600		44.9	mg/Kg	6010C
Arsenic		2.1	J	3.4	mg/Kg	6010C
Barium		14.0	J	44.9	mg/Kg	6010C
Beryllium		0.11	J	0.45	mg/Kg	6010C
Cadmium		4.1		0.90	mg/Kg	6010C
Calcium		1240		1120	mg/Kg	6010C
Chromium		34.0		2.2	mg/Kg	6010C
Cobalt		1.4	J	11.2	mg/Kg	6010C
Copper		11.0		5.6	mg/Kg	6010C
Iron		4000		33.7	mg/Kg	6010C
Lead		20.1		2.2	mg/Kg	6010C
Magnesium		513	J	1120	mg/Kg	6010C
Manganese		188		3.4	mg/Kg	6010C
Nickel		4.7	J	9.0	mg/Kg	6010C
Potassium		166	J	1120	mg/Kg	6010C
Vanadium		6.5	J	11.2	mg/Kg	6010C
Zinc		50.0		6.7	mg/Kg	6010C
Mercury		14.3		0.37	mg/Kg	7471B
Percent Moisture		12.7		1.0	%	Moisture
Percent Solids		87.3		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-14</b>	<b>SS-021 (18"-24")</b>					
alpha-BHC		0.0031		0.0024	mg/Kg	8081B
Chlordane (technical)		0.49		0.080	mg/Kg	8081B
Heptachlor epoxide		0.035		0.0080	mg/Kg	8081B
Aluminum		12400		46.6	mg/Kg	6010C
Arsenic		6.3		3.5	mg/Kg	6010C
Barium		26.9	J	46.6	mg/Kg	6010C
Beryllium		0.39	J	0.47	mg/Kg	6010C
Calcium		804	J	1170	mg/Kg	6010C
Chromium		13.6		2.3	mg/Kg	6010C
Cobalt		2.4	J	11.7	mg/Kg	6010C
Copper		5.5	J	5.8	mg/Kg	6010C
Iron		13700		35.0	mg/Kg	6010C
Lead		10.8		2.3	mg/Kg	6010C
Magnesium		1140	J	1170	mg/Kg	6010C
Manganese		69.7		3.5	mg/Kg	6010C
Nickel		7.5	J	9.3	mg/Kg	6010C
Potassium		362	J	1170	mg/Kg	6010C
Vanadium		22.3		11.7	mg/Kg	6010C
Zinc		35.2		7.0	mg/Kg	6010C
Mercury		1.0		0.040	mg/Kg	7471B
Percent Moisture		15.9		1.0	%	Moisture
Percent Solids		84.1		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-15</b>	<b>SS-022 (0-3")</b>					
Methylene Chloride		0.00047	J B	0.0010	mg/Kg	8260C
Anthracene		0.053	J	0.39	mg/Kg	8270D
Benzaldehyde		0.021	J	0.39	mg/Kg	8270D
Benzo[a]anthracene		0.49		0.039	mg/Kg	8270D
Benzo[a]pyrene		0.56		0.039	mg/Kg	8270D
Benzo[b]fluoranthene		0.80		0.039	mg/Kg	8270D
Benzo[g,h,i]perylene		0.33	J	0.39	mg/Kg	8270D
Carbazole		0.058	J	0.39	mg/Kg	8270D
Chrysene		0.65		0.39	mg/Kg	8270D
Dibenz(a,h)anthracene		0.12		0.039	mg/Kg	8270D
Fluoranthene		0.71		0.39	mg/Kg	8270D
Indeno[1,2,3-cd]pyrene		0.37		0.039	mg/Kg	8270D
Phenanthrene		0.27	J	0.39	mg/Kg	8270D
Pyrene		0.72		0.39	mg/Kg	8270D
Chlordane (technical)		1.0		0.080	mg/Kg	8081B
Heptachlor epoxide		0.26		0.0080	mg/Kg	8081B
Aluminum		5150		46.8	mg/Kg	6010C
Arsenic		3.1	J	3.5	mg/Kg	6010C
Barium		22.6	J	46.8	mg/Kg	6010C
Beryllium		0.20	J	0.47	mg/Kg	6010C
Cadmium		0.48	J	0.94	mg/Kg	6010C
Calcium		1780		1170	mg/Kg	6010C
Chromium		42.0		2.3	mg/Kg	6010C
Cobalt		6.0	J	11.7	mg/Kg	6010C
Copper		6.5		5.9	mg/Kg	6010C
Iron		7380		35.1	mg/Kg	6010C
Lead		32.2		2.3	mg/Kg	6010C
Magnesium		561	J	1170	mg/Kg	6010C
Manganese		622		3.5	mg/Kg	6010C
Nickel		5.1	J	9.4	mg/Kg	6010C
Potassium		135	J	1170	mg/Kg	6010C
Vanadium		13.2		11.7	mg/Kg	6010C
Zinc		45.0		7.0	mg/Kg	6010C
Mercury		4.8		0.20	mg/Kg	7471B
Percent Moisture		16.2		1.0	%	Moisture
Percent Solids		83.8		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-16</b>	<b>SS-023 (0-3")</b>					
4,4'-DDT		0.061		0.0083	mg/Kg	8081B
Chlordane (technical)		0.37		0.083	mg/Kg	8081B
Heptachlor epoxide		0.011		0.0083	mg/Kg	8081B
Aluminum		5800		48.0	mg/Kg	6010C
Arsenic		8.1		3.6	mg/Kg	6010C
Barium		23.0	J	48.0	mg/Kg	6010C
Beryllium		0.28	J	0.48	mg/Kg	6010C
Calcium		1830		1200	mg/Kg	6010C
Chromium		26.8		2.4	mg/Kg	6010C
Cobalt		2.6	J	12.0	mg/Kg	6010C
Copper		12.0		6.0	mg/Kg	6010C
Iron		9310		36.0	mg/Kg	6010C
Lead		14.9		2.4	mg/Kg	6010C
Magnesium		926	J	1200	mg/Kg	6010C
Manganese		244		3.6	mg/Kg	6010C
Nickel		5.3	J	9.6	mg/Kg	6010C
Potassium		220	J	1200	mg/Kg	6010C
Vanadium		14.1		12.0	mg/Kg	6010C
Zinc		39.2		7.2	mg/Kg	6010C
Mercury		3.3		0.20	mg/Kg	7471B
Percent Moisture		19.1		1.0	%	Moisture
Percent Solids		80.9		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-17</b>	<b>SS-023 (18"-24")</b>					
Methylene Chloride		0.0010	B	0.0010	mg/Kg	8260C
m-Xylene & p-Xylene		0.00033	J	0.0010	mg/Kg	8260C
o-Xylene		0.00014	J	0.0010	mg/Kg	8260C
4,4'-DDT		0.021		0.0077	mg/Kg	8081B
Aluminum		6420		45.0	mg/Kg	6010C
Arsenic		1.8	J	3.4	mg/Kg	6010C
Barium		10.2	J	45.0	mg/Kg	6010C
Beryllium		0.16	J	0.45	mg/Kg	6010C
Calcium		423	J	1120	mg/Kg	6010C
Chromium		7.5		2.2	mg/Kg	6010C
Copper		3.6	J	5.6	mg/Kg	6010C
Iron		7010		33.7	mg/Kg	6010C
Lead		8.7		2.2	mg/Kg	6010C
Magnesium		539	J	1120	mg/Kg	6010C
Manganese		45.9		3.4	mg/Kg	6010C
Nickel		4.0	J	9.0	mg/Kg	6010C
Potassium		161	J	1120	mg/Kg	6010C
Vanadium		12.0		11.2	mg/Kg	6010C
Zinc		22.7		6.7	mg/Kg	6010C
Mercury		0.13		0.019	mg/Kg	7471B
Percent Moisture		12.8		1.0	%	Moisture
Percent Solids		87.2		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-18</b>	<b>SS-024 (0-3")</b>					
Methylene Chloride		0.0011	B	0.00084	mg/Kg	8260C
m-Xylene & p-Xylene		0.00042	J	0.00084	mg/Kg	8260C
o-Xylene		0.00015	J	0.00084	mg/Kg	8260C
Aluminum		2540		41.7	mg/Kg	6010C
Arsenic		0.93	J	3.1	mg/Kg	6010C
Barium		4.8	J	41.7	mg/Kg	6010C
Beryllium		0.095	J	0.42	mg/Kg	6010C
Calcium		128	J	1040	mg/Kg	6010C
Chromium		3.1		2.1	mg/Kg	6010C
Cobalt		4.5	J	10.4	mg/Kg	6010C
Copper		3.1	J	5.2	mg/Kg	6010C
Iron		3970		31.2	mg/Kg	6010C
Lead		3.3		2.1	mg/Kg	6010C
Magnesium		236	J	1040	mg/Kg	6010C
Manganese		260		3.1	mg/Kg	6010C
Nickel		3.4	J	8.3	mg/Kg	6010C
Potassium		68.6	J	1040	mg/Kg	6010C
Vanadium		5.3	J	10.4	mg/Kg	6010C
Zinc		9.6		6.2	mg/Kg	6010C
Mercury		0.20		0.017	mg/Kg	7471B
Percent Moisture		6.8		1.0	%	Moisture
Percent Solids		93.2		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-19</b>	<b>DUP-002</b>					
Methylene Chloride		0.0013	B	0.0010	mg/Kg	8260C
m-Xylene & p-Xylene		0.00037	J	0.0010	mg/Kg	8260C
o-Xylene		0.00015	J	0.0010	mg/Kg	8260C
Benzo[a]anthracene		0.024	J	0.040	mg/Kg	8270D
Fluoranthene		0.035	J	0.40	mg/Kg	8270D
Indeno[1,2,3-cd]pyrene		0.020	J	0.040	mg/Kg	8270D
beta-BHC		0.16		0.12	mg/Kg	8081B
Chlordane (technical)		42		4.1	mg/Kg	8081B
Heptachlor epoxide		1.2		0.41	mg/Kg	8081B
Aluminum		2880		48.2	mg/Kg	6010C
Arsenic		8.7		3.6	mg/Kg	6010C
Barium		25.1	J	48.2	mg/Kg	6010C
Beryllium		0.19	J	0.48	mg/Kg	6010C
Cadmium		6.5		0.96	mg/Kg	6010C
Calcium		1760		1210	mg/Kg	6010C
Chromium		65.9		2.4	mg/Kg	6010C
Cobalt		2.0	J	12.1	mg/Kg	6010C
Copper		13.3		6.0	mg/Kg	6010C
Iron		4930		36.2	mg/Kg	6010C
Lead		61.7		2.4	mg/Kg	6010C
Magnesium		733	J	1210	mg/Kg	6010C
Manganese		210		3.6	mg/Kg	6010C
Nickel		4.7	J	9.6	mg/Kg	6010C
Potassium		219	J	1210	mg/Kg	6010C
Vanadium		8.2	J	12.1	mg/Kg	6010C
Zinc		76.2		7.2	mg/Kg	6010C
Mercury		47.1		1.9	mg/Kg	7471B
Percent Moisture		17.9		1.0	%	Moisture
Percent Solids		82.1		1.0	%	Moisture
<b>460-156630-20</b>	<b>EB-002</b>					
2-Butanone (MEK)		23		5.0	ug/L	8260C
2-Hexanone		2.9	J	5.0	ug/L	8260C
Acetone		39	B	5.0	ug/L	8260C
Methylene Chloride		0.72	J	1.0	ug/L	8260C
m-Xylene & p-Xylene		0.61	J	1.0	ug/L	8260C
Acetophenone		3.1	J	11	ug/L	8270D
Diethyl phthalate		1.2	J	11	ug/L	8270D
<b>460-156630-21</b>	<b>TRIP BLANK</b>					
Acetone		1.8	J B	5.0	ug/L	8260C



## METHOD SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156630-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Volatile Organic Compounds by GC/MS	TAL EDI	SW846 8260C	
Closed System Purge and Trap	TAL EDI		SW846 5035
Semivolatile Organic Compounds (GC/MS)	TAL EDI	SW846 8270D	
Microwave Extraction	TAL EDI		SW846 3546
Organochlorine Pesticides (GC)	TAL EDI	SW846 8081B	
Microwave Extraction	TAL EDI		SW846 3546
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL EDI	SW846 8082A	
Microwave Extraction	TAL EDI		SW846 3546
Herbicides (GC)	TAL EDI	SW846 8151A	
Extraction (Herbicides)	TAL EDI		SW846 8151A
Metals (ICP)	TAL EDI	SW846 6010C	
Preparation, Metals	TAL EDI		SW846 3050B
Mercury (CVAA)	TAL EDI	SW846 7471B	
Preparation, Mercury	TAL EDI		SW846 7471B
Percent Moisture	TAL EDI	EPA Moisture	
<b>Matrix: Water</b>			
Volatile Organic Compounds by GC/MS	TAL EDI	SW846 8260C	
Purge and Trap	TAL EDI		SW846 5030C
Semivolatile Organic Compounds (GC/MS)	TAL EDI	SW846 8270D	
Liquid-Liquid Extraction (Separatory Funnel)	TAL EDI		SW846 3510C
Organochlorine Pesticides (GC)	TAL EDI	SW846 8081B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL EDI		SW846 3510C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL EDI	SW846 8082A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL EDI		SW846 3510C
Herbicides (GC)	TAL EDI	SW846 8151A	
Extraction (Herbicides)	TAL EDI		SW846 8151A
Metals (ICP/MS)	TAL EDI	SW846 6020A	
Preparation, Total Metals	TAL EDI		SW846 3010A
Mercury (CVAA)	TAL EDI	SW846 7470A	
Preparation, Mercury	TAL EDI		SW846 7470A

### Lab References:

TAL EDI = TestAmerica Edison

### Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.



## METHOD / ANALYST SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156630-1

Method	Analyst	Analyst ID
SW846 8260C	Chu, Jia-min X	JXC
SW846 8260C	Tupayachi, Audberto	AAT
SW846 8270D	Asfaw, Abebaye A.	AAA
SW846 8270D	Johnston, Mark D	MDJ
SW846 8270D	Nimer, Diaa	DAN
SW846 8081B	Kapoor, Sita	SAK
SW846 8082A	Zhang, Jinyuan X	JXZ
SW846 8151A	Kapoor, Sita	SAK
SW846 6010C	Chang, Churn Der	CDC
SW846 6020A	Chen, Mandi	MDC
SW846 7470A	Sheikh, Razia B	RBS
SW846 7471B	Staib, Thomas	TJS
EPA Moisture	Villanueva, Angelica P	APV



## SAMPLE SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-156630-1	SS-011 (0-3")	Solid	05/21/2018 0850	05/21/2018 2000
460-156630-2	SS-011 (18"-24")	Solid	05/21/2018 0905	05/21/2018 2000
460-156630-3	SS-012 (0-3")	Solid	05/21/2018 0920	05/21/2018 2000
460-156630-4	SS-013 (0-3")	Solid	05/21/2018 0935	05/21/2018 2000
460-156630-5	SS-014 (0-3")	Solid	05/21/2018 0950	05/21/2018 2000
460-156630-6	SS-015 (0-3")	Solid	05/21/2018 1015	05/21/2018 2000
460-156630-7	SS-016 (0-3")	Solid	05/21/2018 1030	05/21/2018 2000
460-156630-8	SS-017 (0-3")	Solid	05/21/2018 1045	05/21/2018 2000
460-156630-9	SS-017 (18"-24")	Solid	05/21/2018 1050	05/21/2018 2000
460-156630-10	SS-018 (0-3")	Solid	05/21/2018 1105	05/21/2018 2000
460-156630-11	SS-019 (0-3")	Solid	05/21/2018 1125	05/21/2018 2000
460-156630-12	SS-020 (0-3")	Solid	05/21/2018 1245	05/21/2018 2000
460-156630-13	SS-021 (0-3")	Solid	05/21/2018 1320	05/21/2018 2000
460-156630-14	SS-021 (18"-24")	Solid	05/21/2018 1325	05/21/2018 2000
460-156630-15	SS-022 (0-3")	Solid	05/21/2018 1340	05/21/2018 2000
460-156630-16	SS-023 (0-3")	Solid	05/21/2018 1350	05/21/2018 2000
460-156630-17	SS-023 (18"-24")	Solid	05/21/2018 1355	05/21/2018 2000
460-156630-18	SS-024 (0-3")	Solid	05/21/2018 1415	05/21/2018 2000
460-156630-19	DUP-002	Solid	05/21/2018 0000	05/21/2018 2000
460-156630-20	EB-002	Water	05/21/2018 1430	05/21/2018 2000
460-156630-21	Trip Blank	Water	05/21/2018 0000	05/21/2018 2000



# **SAMPLE RESULTS**



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-011 (0-3")

Lab Sample ID: 460-156630-1

Client Matrix: Solid

% Moisture: 8.3

Date Sampled: 05/21/2018 0850

Date Received: 05/21/2018 2000

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Prep Method: 5035

Dilution: 1.0

Analysis Date: 05/26/2018 2308

Prep Date: 05/23/2018 0908

Analysis Batch: 460-522864

Prep Batch: 460-521757

Instrument ID: CVOAMS9

Lab File ID: K84147.D

Initial Weight/Volume: 7.039 g

Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.00077	U	0.00018	0.00077
1,1,2,2-Tetrachloroethane		0.00077	U *	0.00017	0.00077
1,1,2-Trichloro-1,2,2-trifluoroethane		0.00077	U	0.00023	0.00077
1,1,2-Trichloroethane		0.00077	U	0.00014	0.00077
1,1-Dichloroethane		0.00077	U	0.00016	0.00077
1,1-Dichloroethene		0.00077	U	0.00017	0.00077
1,2,3-Trichlorobenzene		0.00077	U *	0.00014	0.00077
1,2,4-Trichlorobenzene		0.00077	U *	0.000071	0.00077
1,2-Dibromo-3-Chloropropane		0.00077	U *	0.00036	0.00077
1,2-Dichlorobenzene		0.00077	U *	0.00011	0.00077
1,2-Dichloroethane		0.00077	U	0.00023	0.00077
1,2-Dichloropropane		0.00077	U	0.00033	0.00077
1,3-Dichlorobenzene		0.00077	U *	0.00012	0.00077
1,4-Dichlorobenzene		0.00077	U *	0.000077	0.00077
1,4-Dioxane		0.015	U	0.0071	0.015
2-Butanone (MEK)		0.0039	U	0.00086	0.0039
2-Hexanone		0.0039	U	0.00060	0.0039
4-Methyl-2-pentanone (MIBK)		0.0039	U	0.00051	0.0039
Acetone		0.0039	U	0.0029	0.0039
Benzene		0.00077	U	0.00020	0.00077
Bromoform		0.00077	U	0.00033	0.00077
Bromomethane		0.00077	U	0.00037	0.00077
Carbon disulfide		0.00077	U	0.00021	0.00077
Carbon tetrachloride		0.00077	U	0.00014	0.00077
Chlorobenzene		0.00077	U	0.00014	0.00077
Chlorobromomethane		0.00077	U	0.00022	0.00077
Chlorodibromomethane		0.00077	U	0.00015	0.00077
Chloroethane		0.00077	U	0.00040	0.00077
Chloroform		0.00077	U	0.00025	0.00077
Chloromethane		0.00077	U	0.00034	0.00077
cis-1,2-Dichloroethene		0.00077	U	0.00012	0.00077
cis-1,3-Dichloropropene		0.00077	U	0.00021	0.00077
Cyclohexane		0.00077	U	0.00017	0.00077
Dichlorobromomethane		0.00077	U	0.00020	0.00077
Dichlorodifluoromethane		0.00077	U	0.00026	0.00077
Ethylbenzene		0.00077	U	0.00015	0.00077
Ethylene Dibromide		0.00077	U	0.00014	0.00077
Isopropylbenzene		0.00077	U	0.000098	0.00077
Methyl acetate		0.0039	U	0.0033	0.0039
Methyl tert-butyl ether		0.00077	U	0.000097	0.00077
Methylcyclohexane		0.00077	U	0.00012	0.00077
Methylene Chloride		0.00071	J B	0.00013	0.00077
m-Xylene & p-Xylene		0.00023	J	0.00013	0.00077
o-Xylene		0.000094	J	0.000074	0.00077
Styrene		0.00077	U	0.000095	0.00077
Tetrachloroethene		0.00075	J	0.00011	0.00077



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-011 (0-3")

Lab Sample ID: 460-156630-1

Client Matrix: Solid

% Moisture: 8.3

Date Sampled: 05/21/2018 0850

Date Received: 05/21/2018 2000

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84147.D

Dilution: 1.0

Initial Weight/Volume: 7.039 g

Analysis Date: 05/26/2018 2308

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0908

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.00077	U	0.00048	0.00077
trans-1,2-Dichloroethene		0.00077	U	0.00019	0.00077
trans-1,3-Dichloropropene		0.00077	U	0.00021	0.00077
Trichloroethene		0.00077	U	0.00011	0.00077
Trichlorofluoromethane		0.00077	U	0.00031	0.00077
Vinyl chloride		0.00077	U	0.00042	0.00077

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		78 - 135
4-Bromofluorobenzene	78		67 - 126
Dibromofluoromethane (Surr)	113		61 - 149
Toluene-d8 (Surr)	112		73 - 121



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-011 (18"-24")

Lab Sample ID: 460-156630-2

Date Sampled: 05/21/2018 0905

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84148.D

Dilution: 1.0

Initial Weight/Volume: 6.072 g

Analysis Date: 05/26/2018 2332

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0909

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.00088	U	0.00021	0.00088
1,1,2,2-Tetrachloroethane		0.00088	U	0.00019	0.00088
1,1,2-Trichloro-1,2,2-trifluoroethane		0.00088	U	0.00027	0.00088
1,1,2-Trichloroethane		0.00088	U	0.00016	0.00088
1,1-Dichloroethane		0.00088	U	0.00018	0.00088
1,1-Dichloroethene		0.00088	U	0.00020	0.00088
1,2,3-Trichlorobenzene		0.00088	U	0.00016	0.00088
1,2,4-Trichlorobenzene		0.00088	U	0.000081	0.00088
1,2-Dibromo-3-Chloropropane		0.00088	U	0.00041	0.00088
1,2-Dichlorobenzene		0.00088	U	0.00013	0.00088
1,2-Dichloroethane		0.00088	U	0.00026	0.00088
1,2-Dichloropropane		0.00088	U	0.00037	0.00088
1,3-Dichlorobenzene		0.00088	U	0.00014	0.00088
1,4-Dichlorobenzene		0.00088	U	0.000088	0.00088
1,4-Dioxane		0.018	U	0.0081	0.018
2-Butanone (MEK)		0.0044	U	0.00098	0.0044
2-Hexanone		0.0044	U	0.00069	0.0044
4-Methyl-2-pentanone (MIBK)		0.0044	U	0.00059	0.0044
Acetone		0.0054		0.0033	0.0044
Benzene		0.00088	U	0.00023	0.00088
Bromoform		0.00088	U	0.00038	0.00088
Bromomethane		0.00088	U	0.00042	0.00088
Carbon disulfide		0.00088	U	0.00024	0.00088
Carbon tetrachloride		0.00088	U	0.00016	0.00088
Chlorobenzene		0.00088	U	0.00016	0.00088
Chlorobromomethane		0.00088	U	0.00025	0.00088
Chlorodibromomethane		0.00088	U	0.00017	0.00088
Chloroethane		0.00088	U	0.00046	0.00088
Chloroform		0.00088	U	0.00028	0.00088
Chloromethane		0.00088	U	0.00038	0.00088
cis-1,2-Dichloroethene		0.00088	U	0.00013	0.00088
cis-1,3-Dichloropropene		0.00088	U	0.00024	0.00088
Cyclohexane		0.00088	U	0.00020	0.00088
Dichlorobromomethane		0.00088	U	0.00023	0.00088
Dichlorodifluoromethane		0.00088	U	0.00030	0.00088
Ethylbenzene		0.00088	U	0.00018	0.00088
Ethylene Dibromide		0.00088	U	0.00016	0.00088
Isopropylbenzene		0.00088	U	0.00011	0.00088
Methyl acetate		0.0044	U	0.0038	0.0044
Methyl tert-butyl ether		0.00088	U	0.00011	0.00088
Methylcyclohexane		0.00088	U	0.00014	0.00088
Methylene Chloride		0.00083	J B	0.00014	0.00088
m-Xylene & p-Xylene		0.00026	J	0.00015	0.00088
o-Xylene		0.000096	J	0.000084	0.00088
Styrene		0.00088	U	0.00011	0.00088
Tetrachloroethene		0.00088	U	0.00013	0.00088



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-011 (18"-24")

Lab Sample ID: 460-156630-2

Date Sampled: 05/21/2018 0905

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84148.D

Dilution: 1.0

Initial Weight/Volume: 6.072 g

Analysis Date: 05/26/2018 2332

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0909

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.00088	U	0.00055	0.00088
trans-1,2-Dichloroethene		0.00088	U	0.00022	0.00088
trans-1,3-Dichloropropene		0.00088	U	0.00024	0.00088
Trichloroethene		0.00088	U	0.00013	0.00088
Trichlorofluoromethane		0.00088	U	0.00036	0.00088
Vinyl chloride		0.00088	U	0.00048	0.00088
Surrogate		%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		108		78 - 135	
4-Bromofluorobenzene		105		67 - 126	
Dibromofluoromethane (Surr)		113		61 - 149	
Toluene-d8 (Surr)		102		73 - 121	



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-019 (0-3")

Lab Sample ID: 460-156630-11

Date Sampled: 05/21/2018 1125

Client Matrix: Solid

% Moisture: 17.1

Date Received: 05/21/2018 2000

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84149.D

Dilution: 1.0

Initial Weight/Volume: 5.578 g

Analysis Date: 05/26/2018 2357

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0910

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.0011	U	0.00025	0.0011
1,1,2,2-Tetrachloroethane		0.0011	U	0.00023	0.0011
1,1,2-Trichloro-1,2,2-trifluoroethane		0.0011	U	0.00033	0.0011
1,1,2-Trichloroethane		0.0011	U	0.00019	0.0011
1,1-Dichloroethane		0.0011	U	0.00022	0.0011
1,1-Dichloroethene		0.0011	U	0.00024	0.0011
1,2,3-Trichlorobenzene		0.0011	U	0.00020	0.0011
1,2,4-Trichlorobenzene		0.0011	U	0.000099	0.0011
1,2-Dibromo-3-Chloropropane		0.0011	U	0.00050	0.0011
1,2-Dichlorobenzene		0.0011	U	0.00016	0.0011
1,2-Dichloroethane		0.0011	U	0.00032	0.0011
1,2-Dichloropropane		0.0011	U	0.00046	0.0011
1,3-Dichlorobenzene		0.0011	U	0.00017	0.0011
1,4-Dichlorobenzene		0.0011	U	0.00011	0.0011
1,4-Dioxane		0.022	U	0.0099	0.022
2-Butanone (MEK)		0.0054	U	0.0012	0.0054
2-Hexanone		0.0054	U	0.00084	0.0054
4-Methyl-2-pentanone (MIBK)		0.0054	U	0.00072	0.0054
Acetone		0.0054	U	0.0041	0.0054
Benzene		0.0011	U	0.00028	0.0011
Bromoform		0.0011	U	0.00046	0.0011
Bromomethane		0.0011	U	0.00051	0.0011
Carbon disulfide		0.0011	U	0.00029	0.0011
Carbon tetrachloride		0.0011	U	0.00020	0.0011
Chlorobenzene		0.0011	U	0.00019	0.0011
Chlorobromomethane		0.0011	U	0.00030	0.0011
Chlorodibromomethane		0.0011	U	0.00021	0.0011
Chloroethane		0.0011	U	0.00056	0.0011
Chloroform		0.0011	U	0.00034	0.0011
Chloromethane		0.0011	U	0.00047	0.0011
cis-1,2-Dichloroethene		0.0011	U	0.00016	0.0011
cis-1,3-Dichloropropene		0.0011	U	0.00030	0.0011
Cyclohexane		0.0011	U	0.00024	0.0011
Dichlorobromomethane		0.0011	U	0.00028	0.0011
Dichlorodifluoromethane		0.0011	U	0.00037	0.0011
Ethylbenzene		0.0011	U	0.00022	0.0011
Ethylene Dibromide		0.0011	U	0.00019	0.0011
Isopropylbenzene		0.0011	U	0.00014	0.0011
Methyl acetate		0.0054	U	0.0046	0.0054
Methyl tert-butyl ether		0.0011	U	0.00014	0.0011
Methylcyclohexane		0.0011	U	0.00017	0.0011
Methylene Chloride		0.0016	B	0.00018	0.0011
m-Xylene & p-Xylene		0.00049	J	0.00019	0.0011
o-Xylene		0.00021	J	0.00010	0.0011
Styrene		0.0011	U	0.00013	0.0011
Tetrachloroethene		0.0011	U	0.00015	0.0011



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-019 (0-3")

Lab Sample ID: 460-156630-11

Client Matrix: Solid

% Moisture: 17.1

Date Sampled: 05/21/2018 1125

Date Received: 05/21/2018 2000

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84149.D

Dilution: 1.0

Initial Weight/Volume: 5.578 g

Analysis Date: 05/26/2018 2357

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0910

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.0011	U	0.00068	0.0011
trans-1,2-Dichloroethene		0.0011	U	0.00027	0.0011
trans-1,3-Dichloropropene		0.0011	U	0.00029	0.0011
Trichloroethene		0.0011	U	0.00016	0.0011
Trichlorofluoromethane		0.0011	U	0.00044	0.0011
Vinyl chloride		0.0011	U	0.00059	0.0011

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		78 - 135
4-Bromofluorobenzene	100		67 - 126
Dibromofluoromethane (Surr)	110		61 - 149
Toluene-d8 (Surr)	101		73 - 121



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-021 (0-3")

Lab Sample ID: 460-156630-13

Date Sampled: 05/21/2018 1320

Client Matrix: Solid

% Moisture: 12.7

Date Received: 05/21/2018 2000

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84150.D

Dilution: 1.0

Initial Weight/Volume: 6.167 g

Analysis Date: 05/27/2018 0021

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0911

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.00093	U	0.00022	0.00093
1,1,2,2-Tetrachloroethane		0.00093	U	0.00020	0.00093
1,1,2-Trichloro-1,2,2-trifluoroethane		0.00093	U	0.00028	0.00093
1,1,2-Trichloroethane		0.00093	U	0.00017	0.00093
1,1-Dichloroethane		0.00093	U	0.00019	0.00093
1,1-Dichloroethene		0.00093	U	0.00021	0.00093
1,2,3-Trichlorobenzene		0.00093	U	0.00017	0.00093
1,2,4-Trichlorobenzene		0.00093	U	0.000085	0.00093
1,2-Dibromo-3-Chloropropane		0.00093	U	0.00043	0.00093
1,2-Dichlorobenzene		0.00093	U	0.00013	0.00093
1,2-Dichloroethane		0.00093	U	0.00028	0.00093
1,2-Dichloropropane		0.00093	U	0.00039	0.00093
1,3-Dichlorobenzene		0.00093	U	0.00015	0.00093
1,4-Dichlorobenzene		0.00093	U	0.000093	0.00093
1,4-Dioxane		0.019	U	0.0085	0.019
2-Butanone (MEK)		0.0046	U	0.0010	0.0046
2-Hexanone		0.0046	U	0.00072	0.0046
4-Methyl-2-pentanone (MIBK)		0.0046	U	0.00062	0.0046
Acetone		0.0046	U	0.0035	0.0046
Benzene		0.00093	U	0.00024	0.00093
Bromoform		0.00093	U	0.00039	0.00093
Bromomethane		0.00093	U	0.00044	0.00093
Carbon disulfide		0.00093	U	0.00025	0.00093
Carbon tetrachloride		0.00093	U	0.00017	0.00093
Chlorobenzene		0.00093	U	0.00016	0.00093
Chlorobromomethane		0.00093	U	0.00026	0.00093
Chlorodibromomethane		0.00093	U	0.00018	0.00093
Chloroethane		0.00093	U	0.00049	0.00093
Chloroform		0.00093	U	0.00030	0.00093
Chloromethane		0.00093	U	0.00040	0.00093
cis-1,2-Dichloroethene		0.00093	U	0.00014	0.00093
cis-1,3-Dichloropropene		0.00093	U	0.00025	0.00093
Cyclohexane		0.00093	U	0.00021	0.00093
Dichlorobromomethane		0.00093	U	0.00024	0.00093
Dichlorodifluoromethane		0.00093	U	0.00031	0.00093
Ethylbenzene		0.00093	U	0.00018	0.00093
Ethylene Dibromide		0.00093	U	0.00017	0.00093
Isopropylbenzene		0.00093	U	0.00012	0.00093
Methyl acetate		0.0046	U	0.0040	0.0046
Methyl tert-butyl ether		0.00093	U	0.00012	0.00093
Methylcyclohexane		0.00093	U	0.00015	0.00093
Methylene Chloride		0.00093	U	0.00015	0.00093
m-Xylene & p-Xylene		0.00038	J	0.00016	0.00093
o-Xylene		0.00013	J	0.000088	0.00093
Styrene		0.00093	U	0.00011	0.00093
Tetrachloroethene		0.00093	U	0.00013	0.00093



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-021 (0-3")

Lab Sample ID: 460-156630-13

Client Matrix: Solid

% Moisture: 12.7

Date Sampled: 05/21/2018 1320

Date Received: 05/21/2018 2000

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84150.D

Dilution: 1.0

Initial Weight/Volume: 6.167 g

Analysis Date: 05/27/2018 0021

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0911

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.00093	U	0.00058	0.00093
trans-1,2-Dichloroethene		0.00093	U	0.00023	0.00093
trans-1,3-Dichloropropene		0.00093	U	0.00025	0.00093
Trichloroethene		0.00093	U	0.00013	0.00093
Trichlorofluoromethane		0.00093	U	0.00038	0.00093
Vinyl chloride		0.00093	U	0.00051	0.00093
Surrogate		%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		110		78 - 135	
4-Bromofluorobenzene		99		67 - 126	
Dibromofluoromethane (Surr)		113		61 - 149	
Toluene-d8 (Surr)		102		73 - 121	



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-022 (0-3")

Lab Sample ID: 460-156630-15

Date Sampled: 05/21/2018 1340

Client Matrix: Solid

% Moisture: 16.2

Date Received: 05/21/2018 2000

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84151.D

Dilution: 1.0

Initial Weight/Volume: 5.768 g

Analysis Date: 05/27/2018 0046

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0912

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.0010	U	0.00024	0.0010
1,1,2,2-Tetrachloroethane		0.0010	U	0.00022	0.0010
1,1,2-Trichloro-1,2,2-trifluoroethane		0.0010	U	0.00031	0.0010
1,1,2-Trichloroethane		0.0010	U	0.00018	0.0010
1,1-Dichloroethane		0.0010	U	0.00021	0.0010
1,1-Dichloroethene		0.0010	U	0.00023	0.0010
1,2,3-Trichlorobenzene		0.0010	U	0.00019	0.0010
1,2,4-Trichlorobenzene		0.0010	U	0.000095	0.0010
1,2-Dibromo-3-Chloropropane		0.0010	U	0.00048	0.0010
1,2-Dichlorobenzene		0.0010	U	0.00015	0.0010
1,2-Dichloroethane		0.0010	U	0.00031	0.0010
1,2-Dichloropropane		0.0010	U	0.00044	0.0010
1,3-Dichlorobenzene		0.0010	U	0.00016	0.0010
1,4-Dichlorobenzene		0.0010	U	0.00010	0.0010
1,4-Dioxane		0.021	U	0.0095	0.021
2-Butanone (MEK)		0.0052	U	0.0011	0.0052
2-Hexanone		0.0052	U	0.00081	0.0052
4-Methyl-2-pentanone (MIBK)		0.0052	U	0.00069	0.0052
Acetone		0.0052	U	0.0039	0.0052
Benzene		0.0010	U	0.00027	0.0010
Bromoform		0.0010	U	0.00044	0.0010
Bromomethane		0.0010	U	0.00049	0.0010
Carbon disulfide		0.0010	U	0.00028	0.0010
Carbon tetrachloride		0.0010	U	0.00019	0.0010
Chlorobenzene		0.0010	U	0.00018	0.0010
Chlorobromomethane		0.0010	U	0.00029	0.0010
Chlorodibromomethane		0.0010	U	0.00020	0.0010
Chloroethane		0.0010	U	0.00054	0.0010
Chloroform		0.0010	U	0.00033	0.0010
Chloromethane		0.0010	U	0.00045	0.0010
cis-1,2-Dichloroethene		0.0010	U	0.00016	0.0010
cis-1,3-Dichloropropene		0.0010	U	0.00028	0.0010
Cyclohexane		0.0010	U	0.00023	0.0010
Dichlorobromomethane		0.0010	U	0.00027	0.0010
Dichlorodifluoromethane		0.0010	U	0.00035	0.0010
Ethylbenzene		0.0010	U	0.00021	0.0010
Ethylene Dibromide		0.0010	U	0.00019	0.0010
Isopropylbenzene		0.0010	U	0.00013	0.0010
Methyl acetate		0.0052	U	0.0045	0.0052
Methyl tert-butyl ether		0.0010	U	0.00013	0.0010
Methylcyclohexane		0.0010	U	0.00017	0.0010
Methylene Chloride		0.00047	J B	0.00017	0.0010
m-Xylene & p-Xylene		0.0010	U	0.00018	0.0010
o-Xylene		0.0010	U	0.000098	0.0010
Styrene		0.0010	U	0.00013	0.0010
Tetrachloroethene		0.0010	U	0.00015	0.0010



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-022 (0-3")

Lab Sample ID: 460-156630-15

Client Matrix: Solid

% Moisture: 16.2

Date Sampled: 05/21/2018 1340

Date Received: 05/21/2018 2000

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84151.D

Dilution: 1.0

Initial Weight/Volume: 5.768 g

Analysis Date: 05/27/2018 0046

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0912

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.0010	U	0.00065	0.0010
trans-1,2-Dichloroethene		0.0010	U	0.00025	0.0010
trans-1,3-Dichloropropene		0.0010	U	0.00028	0.0010
Trichloroethene		0.0010	U	0.00015	0.0010
Trichlorofluoromethane		0.0010	U	0.00042	0.0010
Vinyl chloride		0.0010	U	0.00057	0.0010

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		78 - 135
4-Bromofluorobenzene	103		67 - 126
Dibromofluoromethane (Surr)	114		61 - 149
Toluene-d8 (Surr)	103		73 - 121



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-023 (18"-24")

Lab Sample ID: 460-156630-17

Date Sampled: 05/21/2018 1355

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/21/2018 2000

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84152.D

Dilution: 1.0

Initial Weight/Volume: 5.653 g

Analysis Date: 05/27/2018 0111

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0913

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.0010	U	0.00024	0.0010
1,1,2,2-Tetrachloroethane		0.0010	U	0.00022	0.0010
1,1,2-Trichloro-1,2,2-trifluoroethane		0.0010	U	0.00031	0.0010
1,1,2-Trichloroethane		0.0010	U	0.00018	0.0010
1,1-Dichloroethane		0.0010	U	0.00021	0.0010
1,1-Dichloroethene		0.0010	U	0.00023	0.0010
1,2,3-Trichlorobenzene		0.0010	U	0.00018	0.0010
1,2,4-Trichlorobenzene		0.0010	U	0.000093	0.0010
1,2-Dibromo-3-Chloropropane		0.0010	U	0.00047	0.0010
1,2-Dichlorobenzene		0.0010	U	0.00015	0.0010
1,2-Dichloroethane		0.0010	U	0.00030	0.0010
1,2-Dichloropropane		0.0010	U	0.00043	0.0010
1,3-Dichlorobenzene		0.0010	U	0.00016	0.0010
1,4-Dichlorobenzene		0.0010	U	0.00010	0.0010
1,4-Dioxane		0.020	U	0.0093	0.020
2-Butanone (MEK)		0.0051	U	0.0011	0.0051
2-Hexanone		0.0051	U	0.00079	0.0051
4-Methyl-2-pentanone (MIBK)		0.0051	U	0.00067	0.0051
Acetone		0.0051	U	0.0038	0.0051
Benzene		0.0010	U	0.00026	0.0010
Bromoform		0.0010	U	0.00043	0.0010
Bromomethane		0.0010	U	0.00048	0.0010
Carbon disulfide		0.0010	U	0.00027	0.0010
Carbon tetrachloride		0.0010	U	0.00018	0.0010
Chlorobenzene		0.0010	U	0.00018	0.0010
Chlorobromomethane		0.0010	U	0.00029	0.0010
Chlorodibromomethane		0.0010	U	0.00020	0.0010
Chloroethane		0.0010	U	0.00053	0.0010
Chloroform		0.0010	U	0.00032	0.0010
Chloromethane		0.0010	U	0.00044	0.0010
cis-1,2-Dichloroethene		0.0010	U	0.00015	0.0010
cis-1,3-Dichloropropene		0.0010	U	0.00028	0.0010
Cyclohexane		0.0010	U	0.00022	0.0010
Dichlorobromomethane		0.0010	U	0.00026	0.0010
Dichlorodifluoromethane		0.0010	U	0.00034	0.0010
Ethylbenzene		0.0010	U	0.00020	0.0010
Ethylene Dibromide		0.0010	U	0.00018	0.0010
Isopropylbenzene		0.0010	U	0.00013	0.0010
Methyl acetate		0.0051	U	0.0044	0.0051
Methyl tert-butyl ether		0.0010	U	0.00013	0.0010
Methylcyclohexane		0.0010	U	0.00016	0.0010
Methylene Chloride		0.0010	B	0.00017	0.0010
m-Xylene & p-Xylene		0.00033	J	0.00018	0.0010
o-Xylene		0.00014	J	0.000096	0.0010
Styrene		0.0010	U	0.00012	0.0010
Tetrachloroethene		0.0010	U	0.00015	0.0010



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-023 (18"-24")

Lab Sample ID: 460-156630-17

Date Sampled: 05/21/2018 1355

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/21/2018 2000

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84152.D

Dilution: 1.0

Initial Weight/Volume: 5.653 g

Analysis Date: 05/27/2018 0111

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0913

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.0010	U	0.00063	0.0010
trans-1,2-Dichloroethene		0.0010	U	0.00025	0.0010
trans-1,3-Dichloropropene		0.0010	U	0.00027	0.0010
Trichloroethene		0.0010	U	0.00015	0.0010
Trichlorofluoromethane		0.0010	U	0.00041	0.0010
Vinyl chloride		0.0010	U	0.00055	0.0010

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		78 - 135
4-Bromofluorobenzene	103		67 - 126
Dibromofluoromethane (Surr)	109		61 - 149
Toluene-d8 (Surr)	99		73 - 121



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-024 (0-3")

Lab Sample ID: 460-156630-18

Date Sampled: 05/21/2018 1415

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84153.D

Dilution: 1.0

Initial Weight/Volume: 6.378 g

Analysis Date: 05/27/2018 0135

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0914

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.00084	U	0.00020	0.00084
1,1,2,2-Tetrachloroethane		0.00084	U	0.00018	0.00084
1,1,2-Trichloro-1,2,2-trifluoroethane		0.00084	U	0.00025	0.00084
1,1,2-Trichloroethane		0.00084	U	0.00015	0.00084
1,1-Dichloroethane		0.00084	U	0.00017	0.00084
1,1-Dichloroethene		0.00084	U	0.00019	0.00084
1,2,3-Trichlorobenzene		0.00084	U	0.00015	0.00084
1,2,4-Trichlorobenzene		0.00084	U	0.000077	0.00084
1,2-Dibromo-3-Chloropropane		0.00084	U	0.00039	0.00084
1,2-Dichlorobenzene		0.00084	U	0.00012	0.00084
1,2-Dichloroethane		0.00084	U	0.00025	0.00084
1,2-Dichloropropane		0.00084	U	0.00036	0.00084
1,3-Dichlorobenzene		0.00084	U	0.00013	0.00084
1,4-Dichlorobenzene		0.00084	U	0.000084	0.00084
1,4-Dioxane		0.017	U	0.0077	0.017
2-Butanone (MEK)		0.0042	U	0.00093	0.0042
2-Hexanone		0.0042	U	0.00066	0.0042
4-Methyl-2-pentanone (MIBK)		0.0042	U	0.00056	0.0042
Acetone		0.0042	U	0.0032	0.0042
Benzene		0.00084	U	0.00022	0.00084
Bromoform		0.00084	U	0.00036	0.00084
Bromomethane		0.00084	U	0.00040	0.00084
Carbon disulfide		0.00084	U	0.00022	0.00084
Carbon tetrachloride		0.00084	U	0.00015	0.00084
Chlorobenzene		0.00084	U	0.00015	0.00084
Chlorobromomethane		0.00084	U	0.00024	0.00084
Chlorodibromomethane		0.00084	U	0.00016	0.00084
Chloroethane		0.00084	U	0.00044	0.00084
Chloroform		0.00084	U	0.00027	0.00084
Chloromethane		0.00084	U	0.00037	0.00084
cis-1,2-Dichloroethene		0.00084	U	0.00013	0.00084
cis-1,3-Dichloropropene		0.00084	U	0.00023	0.00084
Cyclohexane		0.00084	U	0.00019	0.00084
Dichlorobromomethane		0.00084	U	0.00022	0.00084
Dichlorodifluoromethane		0.00084	U	0.00028	0.00084
Ethylbenzene		0.00084	U	0.00017	0.00084
Ethylene Dibromide		0.00084	U	0.00015	0.00084
Isopropylbenzene		0.00084	U	0.00011	0.00084
Methyl acetate		0.0042	U	0.0036	0.0042
Methyl tert-butyl ether		0.00084	U	0.00011	0.00084
Methylcyclohexane		0.00084	U	0.00013	0.00084
Methylene Chloride		0.0011	B	0.00014	0.00084
m-Xylene & p-Xylene		0.00042	J	0.00015	0.00084
o-Xylene		0.00015	J	0.000080	0.00084
Styrene		0.00084	U	0.00010	0.00084
Tetrachloroethene		0.00084	U	0.00012	0.00084



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-024 (0-3")

Lab Sample ID: 460-156630-18

Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 05/21/2018 1415

Date Received: 05/21/2018 2000

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84153.D

Dilution: 1.0

Initial Weight/Volume: 6.378 g

Analysis Date: 05/27/2018 0135

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0914

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.00084	U	0.00053	0.00084
trans-1,2-Dichloroethene		0.00084	U	0.00021	0.00084
trans-1,3-Dichloropropene		0.00084	U	0.00022	0.00084
Trichloroethene		0.00084	U	0.00012	0.00084
Trichlorofluoromethane		0.00084	U	0.00034	0.00084
Vinyl chloride		0.00084	U	0.00046	0.00084
Surrogate		%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		128		78 - 135	
4-Bromofluorobenzene		122		67 - 126	
Dibromofluoromethane (Surr)		132		61 - 149	
Toluene-d8 (Surr)		118		73 - 121	



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: DUP-002

Lab Sample ID: 460-156630-19

Date Sampled: 05/21/2018 0000

Client Matrix: Solid

% Moisture: 17.9

Date Received: 05/21/2018 2000

## 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84154.D

Dilution: 1.0

Initial Weight/Volume: 5.85 g

Analysis Date: 05/27/2018 0200

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0915

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		0.0010	U	0.00024	0.0010
1,1,2,2-Tetrachloroethane		0.0010	U	0.00022	0.0010
1,1,2-Trichloro-1,2,2-trifluoroethane		0.0010	U	0.00031	0.0010
1,1,2-Trichloroethane		0.0010	U	0.00019	0.0010
1,1-Dichloroethane		0.0010	U	0.00021	0.0010
1,1-Dichloroethene		0.0010	U	0.00023	0.0010
1,2,3-Trichlorobenzene		0.0010	U	0.00019	0.0010
1,2,4-Trichlorobenzene		0.0010	U	0.000096	0.0010
1,2-Dibromo-3-Chloropropane		0.0010	U	0.00048	0.0010
1,2-Dichlorobenzene		0.0010	U	0.00015	0.0010
1,2-Dichloroethane		0.0010	U	0.00031	0.0010
1,2-Dichloropropane		0.0010	U	0.00044	0.0010
1,3-Dichlorobenzene		0.0010	U	0.00017	0.0010
1,4-Dichlorobenzene		0.0010	U	0.00010	0.0010
1,4-Dioxane		0.021	U	0.0096	0.021
2-Butanone (MEK)		0.0052	U	0.0012	0.0052
2-Hexanone		0.0052	U	0.00081	0.0052
4-Methyl-2-pentanone (MIBK)		0.0052	U	0.00069	0.0052
Acetone		0.0052	U	0.0039	0.0052
Benzene		0.0010	U	0.00027	0.0010
Bromoform		0.0010	U	0.00044	0.0010
Bromomethane		0.0010	U	0.00049	0.0010
Carbon disulfide		0.0010	U	0.00028	0.0010
Carbon tetrachloride		0.0010	U	0.00019	0.0010
Chlorobenzene		0.0010	U	0.00018	0.0010
Chlorobromomethane		0.0010	U	0.00029	0.0010
Chlorodibromomethane		0.0010	U	0.00020	0.0010
Chloroethane		0.0010	U	0.00054	0.0010
Chloroform		0.0010	U	0.00033	0.0010
Chloromethane		0.0010	U	0.00045	0.0010
cis-1,2-Dichloroethene		0.0010	U	0.00016	0.0010
cis-1,3-Dichloropropene		0.0010	U	0.00028	0.0010
Cyclohexane		0.0010	U	0.00023	0.0010
Dichlorobromomethane		0.0010	U	0.00027	0.0010
Dichlorodifluoromethane		0.0010	U	0.00035	0.0010
Ethylbenzene		0.0010	U	0.00021	0.0010
Ethylene Dibromide		0.0010	U	0.00019	0.0010
Isopropylbenzene		0.0010	U	0.00013	0.0010
Methyl acetate		0.0052	U	0.0045	0.0052
Methyl tert-butyl ether		0.0010	U	0.00013	0.0010
Methylcyclohexane		0.0010	U	0.00017	0.0010
Methylene Chloride		0.0013	B	0.00017	0.0010
m-Xylene & p-Xylene		0.00037	J	0.00018	0.0010
o-Xylene		0.00015	J	0.000099	0.0010
Styrene		0.0010	U	0.00013	0.0010
Tetrachloroethene		0.0010	U	0.00015	0.0010



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: DUP-002

Lab Sample ID: 460-156630-19

Date Sampled: 05/21/2018 0000

Client Matrix: Solid

% Moisture: 17.9

Date Received: 05/21/2018 2000

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522864

Instrument ID: CVOAMS9

Prep Method: 5035

Prep Batch: 460-521757

Lab File ID: K84154.D

Dilution: 1.0

Initial Weight/Volume: 5.85 g

Analysis Date: 05/27/2018 0200

Final Weight/Volume: 5 mL

Prep Date: 05/23/2018 0915

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Toluene		0.0010	U	0.00065	0.0010
trans-1,2-Dichloroethene		0.0010	U	0.00026	0.0010
trans-1,3-Dichloropropene		0.0010	U	0.00028	0.0010
Trichloroethene		0.0010	U	0.00015	0.0010
Trichlorofluoromethane		0.0010	U	0.00042	0.0010
Vinyl chloride		0.0010	U	0.00057	0.0010

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		78 - 135
4-Bromofluorobenzene	94		67 - 126
Dibromofluoromethane (Surr)	113		61 - 149
Toluene-d8 (Surr)	100		73 - 121



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: EB-002**

Lab Sample ID: 460-156630-20

Date Sampled: 05/21/2018 1430

Client Matrix: Water

Date Received: 05/21/2018 2000

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-522339

Instrument ID: CVOAMS15

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: T07840.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/25/2018 0420

Final Weight/Volume: 5 mL

Prep Date: 05/25/2018 0420

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	23		2.2	5.0
2-Hexanone	2.9	J	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	39	B	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	0.72	J	0.21	1.0
m-Xylene & p-Xylene	0.61	J	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: EB-002

Lab Sample ID: 460-156630-20

Client Matrix: Water

Date Sampled: 05/21/2018 1430

Date Received: 05/21/2018 2000

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522339

Instrument ID: CVOAMS15

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: T07840.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/25/2018 0420

Final Weight/Volume: 5 mL

Prep Date: 05/25/2018 0420

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		74 - 132
4-Bromofluorobenzene	99		77 - 124
Dibromofluoromethane (Surr)	100		72 - 131
Toluene-d8 (Surr)	99		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: Trip Blank**

Lab Sample ID: 460-156630-21

Date Sampled: 05/21/2018 0000

Client Matrix: Water

Date Received: 05/21/2018 2000

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-522339

Instrument ID: CVOAMS15

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: T07841.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/25/2018 0445

Final Weight/Volume: 5 mL

Prep Date: 05/25/2018 0445

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	1.8	J B	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-156630-21

Client Matrix: Water

Date Sampled: 05/21/2018 0000

Date Received: 05/21/2018 2000

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-522339

Instrument ID: CVOAMS15

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: T07841.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/25/2018 0445

Final Weight/Volume: 5 mL

Prep Date: 05/25/2018 0445

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		74 - 132
4-Bromofluorobenzene	98		77 - 124
Dibromofluoromethane (Surr)	100		72 - 131
Toluene-d8 (Surr)	98		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-011 (0-3")**

Lab Sample ID: 460-156630-1

Date Sampled: 05/21/2018 0850

Client Matrix: Solid

% Moisture: 8.3

Date Received: 05/21/2018 2000

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-522419

Instrument ID: CBNAMS15

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: f423882.D

Dilution: 1.0

Initial Weight/Volume: 15.0109 g

Analysis Date: 05/25/2018 1007

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.36	U	0.0048	0.36
1,2,4,5-Tetrachlorobenzene		0.36	U	0.0047	0.36
2,2'-oxybis[1-chloropropane]		0.36	U	0.0065	0.36
2,3,4,6-Tetrachlorophenol		0.36	U	0.024	0.36
2,4,5-Trichlorophenol		0.36	U	0.012	0.36
2,4,6-Trichlorophenol		0.14	U	0.018	0.14
2,4-Dichlorophenol		0.14	U	0.0076	0.14
2,4-Dimethylphenol		0.36	U	0.016	0.36
2,4-Dinitrophenol		0.29	U	0.18	0.29
2,4-Dinitrotoluene		0.073	U	0.018	0.073
2,6-Dinitrotoluene		0.073	U	0.012	0.073
2-Chloronaphthalene		0.36	U	0.017	0.36
2-Chlorophenol		0.36	U	0.0051	0.36
2-Methylnaphthalene		0.010	J	0.0045	0.36
2-Methylphenol		0.36	U	0.0058	0.36
2-Nitroaniline		0.36	U	0.013	0.36
2-Nitrophenol		0.36	U	0.012	0.36
3,3'-Dichlorobenzidine		0.14	U	0.054	0.14
3-Nitroaniline		0.36	U	0.020	0.36
4,6-Dinitro-2-methylphenol		0.29	U	0.059	0.29
4-Bromophenyl phenyl ether		0.36	U	0.0047	0.36
4-Chloro-3-methylphenol		0.36	U	0.0060	0.36
4-Chloroaniline		0.36	U	0.025	0.36
4-Chlorophenyl phenyl ether		0.36	U	0.0057	0.36
4-Methylphenol		0.36	U	0.0061	0.36
4-Nitroaniline		0.36	U	0.013	0.36
4-Nitrophenol		0.73	U	0.059	0.73
Acenaphthene		0.36	U	0.026	0.36
Acenaphthylene		0.36	U	0.0037	0.36
Acetophenone		0.36	U	0.0058	0.36
Anthracene		0.36	U	0.0040	0.36
Atrazine		0.14	U	0.0091	0.14
Benzaldehyde		0.36	U	0.016	0.36
Benzo[a]anthracene		0.16		0.013	0.036
Benzo[a]pyrene		0.18		0.0096	0.036
Benzo[b]fluoranthene		0.29		0.0093	0.036
Benzo[g,h,i]perylene		0.10	J	0.011	0.36
Benzo[k]fluoranthene		0.088		0.0071	0.036
Bis(2-chloroethoxy)methane		0.36	U	0.012	0.36
Bis(2-chloroethyl)ether		0.036	U	0.0044	0.036
Bis(2-ethylhexyl) phthalate		1.2		0.019	0.36
Butyl benzyl phthalate		0.10	J	0.017	0.36
Caprolactam		0.11	J	0.022	0.36
Carbazole		0.36	U	0.0042	0.36
Chrysene		0.19	J	0.0061	0.36
Dibenz(a,h)anthracene		0.036	U	0.016	0.036



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-011 (0-3")**

Lab Sample ID: 460-156630-1

Date Sampled: 05/21/2018 0850

Client Matrix: Solid

% Moisture: 8.3

Date Received: 05/21/2018 2000

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-522419

Instrument ID: CBNAMS15

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: f423882.D

Dilution: 1.0

Initial Weight/Volume: 15.0109 g

Analysis Date: 05/25/2018 1007

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.36	U	0.0051	0.36
Diethyl phthalate		0.36	U	0.0052	0.36
Dimethyl phthalate		0.36	U	0.0043	0.36
Di-n-butyl phthalate		0.36	U	0.064	0.36
Di-n-octyl phthalate		0.36	U	0.019	0.36
Fluoranthene		0.32	J	0.0047	0.36
Fluorene		0.36	U	0.0049	0.36
Hexachlorobenzene		0.036	U	0.0053	0.036
Hexachlorobutadiene		0.073	U	0.0077	0.073
Hexachlorocyclopentadiene		0.36	U	0.032	0.36
Hexachloroethane		0.036	U	0.0056	0.036
Indeno[1,2,3-cd]pyrene		0.12		0.014	0.036
Isophorone		0.14	U	0.0095	0.14
Naphthalene		0.013	J	0.0062	0.36
Nitrobenzene		0.036	U	0.0087	0.036
N-Nitrosodi-n-propylamine		0.036	U	0.0057	0.036
N-Nitrosodiphenylamine		0.36	U	0.0069	0.36
Pentachlorophenol		0.29	U	0.074	0.29
Phenanthrene		0.16	J	0.0063	0.36
Phenol		0.36	U	0.0053	0.36
Pyrene		0.31	J	0.0090	0.36

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	69		10 - 103
2-Fluorobiphenyl	51		38 - 95
2-Fluorophenol (Surr)	69		25 - 92
Nitrobenzene-d5 (Surr)	51		37 - 94
Phenol-d5 (Surr)	69		32 - 91
Terphenyl-d14 (Surr)	36		24 - 109



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-011 (18"-24")**

Lab Sample ID: 460-156630-2

Date Sampled: 05/21/2018 0905

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079236.d

Dilution: 1.0

Initial Weight/Volume: 15.0154 g

Analysis Date: 05/24/2018 1233

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.35	U	0.0047	0.35
1,2,4,5-Tetrachlorobenzene		0.35	U	0.0046	0.35
2,2'-oxybis[1-chloropropane]		0.35	U	0.0064	0.35
2,3,4,6-Tetrachlorophenol		0.35	U	0.024	0.35
2,4,5-Trichlorophenol		0.35	U	0.012	0.35
2,4,6-Trichlorophenol		0.14	U	0.018	0.14
2,4-Dichlorophenol		0.14	U	0.0075	0.14
2,4-Dimethylphenol		0.35	U	0.016	0.35
2,4-Dinitrophenol		0.29	U	0.17	0.29
2,4-Dinitrotoluene		0.072	U	0.018	0.072
2,6-Dinitrotoluene		0.072	U	0.011	0.072
2-Chloronaphthalene		0.35	U	0.016	0.35
2-Chlorophenol		0.35	U	0.0050	0.35
2-Methylnaphthalene		0.35	U	0.0044	0.35
2-Methylphenol		0.35	U	0.0057	0.35
2-Nitroaniline		0.35	U	0.013	0.35
2-Nitrophenol		0.35	U	0.011	0.35
3,3'-Dichlorobenzidine		0.14	U	0.054	0.14
3-Nitroaniline		0.35	U	0.019	0.35
4,6-Dinitro-2-methylphenol		0.29	U	0.058	0.29
4-Bromophenyl phenyl ether		0.35	U	0.0046	0.35
4-Chloro-3-methylphenol		0.35	U	0.0059	0.35
4-Chloroaniline		0.35	U	0.025	0.35
4-Chlorophenyl phenyl ether		0.35	U	0.0056	0.35
4-Methylphenol		0.35	U	0.0060	0.35
4-Nitroaniline		0.35	U	0.013	0.35
4-Nitrophenol		0.72	U	0.058	0.72
Acenaphthene		0.35	U	0.026	0.35
Acenaphthylene		0.35	U	0.0037	0.35
Acetophenone		0.35	U	0.0057	0.35
Anthracene		0.35	U	0.0040	0.35
Atrazine		0.14	U	0.0089	0.14
Benzaldehyde		0.35	U	0.015	0.35
Benzo[a]anthracene		0.026	J	0.012	0.035
Benzo[a]pyrene		0.035	U	0.0094	0.035
Benzo[b]fluoranthene		0.035	U	0.0092	0.035
Benzo[g,h,i]perylene		0.35	U	0.010	0.35
Benzo[k]fluoranthene		0.035	U	0.0070	0.035
Bis(2-chloroethoxy)methane		0.35	U	0.012	0.35
Bis(2-chloroethyl)ether		0.035	U	0.0043	0.035
Bis(2-ethylhexyl) phthalate		0.13	J	0.019	0.35
Butyl benzyl phthalate		0.35	U	0.017	0.35
Caprolactam		0.35	U	0.021	0.35
Carbazole		0.35	U	0.0041	0.35
Chrysene		0.35	U	0.0060	0.35
Dibenz(a,h)anthracene		0.035	U	0.015	0.035



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-011 (18"-24")**

Lab Sample ID: 460-156630-2

Date Sampled: 05/21/2018 0905

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079236.d

Dilution: 1.0

Initial Weight/Volume: 15.0154 g

Analysis Date: 05/24/2018 1233

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.35	U	0.0050	0.35
Diethyl phthalate		0.35	U	0.0051	0.35
Dimethyl phthalate		0.35	U	0.0043	0.35
Di-n-butyl phthalate		0.35	U	0.063	0.35
Di-n-octyl phthalate		0.35	U	0.019	0.35
Fluoranthene		0.037	J	0.0046	0.35
Fluorene		0.35	U	0.0048	0.35
Hexachlorobenzene		0.035	U	0.0052	0.035
Hexachlorobutadiene		0.072	U	0.0075	0.072
Hexachlorocyclopentadiene		0.35	U	0.031	0.35
Hexachloroethane		0.035	U	0.0055	0.035
Indeno[1,2,3-cd]pyrene		0.018	J	0.014	0.035
Isophorone		0.14	U	0.0093	0.14
Naphthalene		0.35	U	0.0061	0.35
Nitrobenzene		0.035	U	0.0085	0.035
N-Nitrosodi-n-propylamine		0.035	U	0.0056	0.035
N-Nitrosodiphenylamine		0.35	U	0.0068	0.35
Pentachlorophenol		0.29	U	0.073	0.29
Phenanthrene		0.022	J	0.0062	0.35
Phenol		0.35	U	0.0053	0.35
Pyrene		0.036	J	0.0088	0.35
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)		64		10 - 103	
2-Fluorobiphenyl		87		38 - 95	
2-Fluorophenol (Surr)		78		25 - 92	
Nitrobenzene-d5 (Surr)		84		37 - 94	
Phenol-d5 (Surr)		59		32 - 91	
Terphenyl-d14 (Surr)		89		24 - 109	



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-019 (0-3")

Lab Sample ID: 460-156630-11

Date Sampled: 05/21/2018 1125

Client Matrix: Solid

% Moisture: 17.1

Date Received: 05/21/2018 2000

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079237.d

Dilution: 1.0

Initial Weight/Volume: 15.0160 g

Analysis Date: 05/24/2018 1255

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.40	U	0.0053	0.40
1,2,4,5-Tetrachlorobenzene		0.40	U	0.0052	0.40
2,2'-oxybis[1-chloropropane]		0.40	U	0.0072	0.40
2,3,4,6-Tetrachlorophenol		0.40	U	0.027	0.40
2,4,5-Trichlorophenol		0.40	U	0.013	0.40
2,4,6-Trichlorophenol		0.16	U	0.020	0.16
2,4-Dichlorophenol		0.16	U	0.0084	0.16
2,4-Dimethylphenol		0.40	U	0.018	0.40
2,4-Dinitrophenol		0.32	U	0.20	0.32
2,4-Dinitrotoluene		0.081	U	0.020	0.081
2,6-Dinitrotoluene		0.081	U	0.013	0.081
2-Chloronaphthalene		0.40	U	0.018	0.40
2-Chlorophenol		0.40	U	0.0056	0.40
2-Methylnaphthalene		0.40	U	0.0050	0.40
2-Methylphenol		0.40	U	0.0064	0.40
2-Nitroaniline		0.40	U	0.015	0.40
2-Nitrophenol		0.40	U	0.013	0.40
3,3'-Dichlorobenzidine		0.16	U	0.060	0.16
3-Nitroaniline		0.40	U	0.022	0.40
4,6-Dinitro-2-methylphenol		0.32	U	0.065	0.32
4-Bromophenyl phenyl ether		0.40	U	0.0052	0.40
4-Chloro-3-methylphenol		0.40	U	0.0066	0.40
4-Chloroaniline		0.40	U	0.028	0.40
4-Chlorophenyl phenyl ether		0.40	U	0.0063	0.40
4-Methylphenol		0.40	U	0.0068	0.40
4-Nitroaniline		0.40	U	0.015	0.40
4-Nitrophenol		0.81	U	0.065	0.81
Acenaphthene		0.40	U	0.029	0.40
Acenaphthylene		0.40	U	0.0041	0.40
Acetophenone		0.40	U	0.0064	0.40
Anthracene		0.40	U	0.0045	0.40
Atrazine		0.16	U	0.010	0.16
Benzaldehyde		0.40	U	0.017	0.40
Benzo[a]anthracene		0.020	J	0.014	0.040
Benzo[a]pyrene		0.040	U	0.011	0.040
Benzo[b]fluoranthene		0.040	U	0.010	0.040
Benzo[g,h,i]perylene		0.40	U	0.012	0.40
Benzo[k]fluoranthene		0.040	U	0.0078	0.040
Bis(2-chloroethoxy)methane		0.40	U	0.014	0.40
Bis(2-chloroethyl)ether		0.040	U	0.0048	0.040
Bis(2-ethylhexyl) phthalate		0.40	U	0.021	0.40
Butyl benzyl phthalate		0.40	U	0.019	0.40
Caprolactam		0.40	U	0.024	0.40
Carbazole		0.40	U	0.0047	0.40
Chrysene		0.40	U	0.0067	0.40
Dibenz(a,h)anthracene		0.040	U	0.017	0.040



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-019 (0-3")**

Lab Sample ID: 460-156630-11

Date Sampled: 05/21/2018 1125

Client Matrix: Solid

% Moisture: 17.1

Date Received: 05/21/2018 2000

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D	Analysis Batch: 460-522029	Instrument ID: CBNAMS12
Prep Method: 3546	Prep Batch: 460-521793	Lab File ID: L2079237.d
Dilution: 1.0		Initial Weight/Volume: 15.0160 g
Analysis Date: 05/24/2018 1255		Final Weight/Volume: 1 mL
Prep Date: 05/23/2018 1044		Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.40	U	0.0056	0.40
Diethyl phthalate		0.40	U	0.0058	0.40
Dimethyl phthalate		0.40	U	0.0048	0.40
Di-n-butyl phthalate		0.40	U	0.070	0.40
Di-n-octyl phthalate		0.40	U	0.021	0.40
Fluoranthene		0.022	J	0.0052	0.40
Fluorene		0.40	U	0.0054	0.40
Hexachlorobenzene		0.040	U	0.0058	0.040
Hexachlorobutadiene		0.081	U	0.0085	0.081
Hexachlorocyclopentadiene		0.40	U	0.035	0.40
Hexachloroethane		0.040	U	0.0061	0.040
Indeno[1,2,3-cd]pyrene		0.040	U	0.016	0.040
Isophorone		0.16	U	0.010	0.16
Naphthalene		0.40	U	0.0069	0.40
Nitrobenzene		0.040	U	0.0096	0.040
N-Nitrosodi-n-propylamine		0.040	U	0.0063	0.040
N-Nitrosodiphenylamine		0.40	U	0.0076	0.40
Pentachlorophenol		0.32	U	0.082	0.32
Phenanthrene		0.40	U	0.0070	0.40
Phenol		0.40	U	0.0059	0.40
Pyrene		0.40	U	0.0099	0.40
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)		56		10 - 103	
2-Fluorobiphenyl		48		38 - 95	
2-Fluorophenol (Surr)		40		25 - 92	
Nitrobenzene-d5 (Surr)		46		37 - 94	
Phenol-d5 (Surr)		34		32 - 91	
Terphenyl-d14 (Surr)		51		24 - 109	



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-021 (0-3")

Lab Sample ID: 460-156630-13

Client Matrix: Solid

% Moisture: 12.7

Date Sampled: 05/21/2018 1320

Date Received: 05/21/2018 2000

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079246.d

Dilution: 1.0

Initial Weight/Volume: 15.0198 g

Analysis Date: 05/24/2018 1618

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.38	U	0.0050	0.38
1,2,4,5-Tetrachlorobenzene		0.38	U	0.0050	0.38
2,2'-oxybis[1-chloropropane]		0.38	U	0.0069	0.38
2,3,4,6-Tetrachlorophenol		0.38	U	0.026	0.38
2,4,5-Trichlorophenol		0.38	U	0.012	0.38
2,4,6-Trichlorophenol		0.15	U	0.019	0.15
2,4-Dichlorophenol		0.15	U	0.0080	0.15
2,4-Dimethylphenol		0.38	U	0.017	0.38
2,4-Dinitrophenol		0.30	U	0.19	0.30
2,4-Dinitrotoluene		0.077	U	0.019	0.077
2,6-Dinitrotoluene		0.077	U	0.012	0.077
2-Chloronaphthalene		0.38	U	0.018	0.38
2-Chlorophenol		0.38	U	0.0053	0.38
2-Methylnaphthalene		0.38	U	0.0047	0.38
2-Methylphenol		0.38	U	0.0061	0.38
2-Nitroaniline		0.38	U	0.014	0.38
2-Nitrophenol		0.38	U	0.012	0.38
3,3'-Dichlorobenzidine		0.15	U	0.057	0.15
3-Nitroaniline		0.38	U	0.021	0.38
4,6-Dinitro-2-methylphenol		0.30	U	0.061	0.30
4-Bromophenyl phenyl ether		0.38	U	0.0049	0.38
4-Chloro-3-methylphenol		0.38	U	0.0063	0.38
4-Chloroaniline		0.38	U	0.026	0.38
4-Chlorophenyl phenyl ether		0.38	U	0.0060	0.38
4-Methylphenol		0.38	U	0.0065	0.38
4-Nitroaniline		0.38	U	0.014	0.38
4-Nitrophenol		0.77	U	0.062	0.77
Acenaphthene		0.38	U	0.028	0.38
Acenaphthylene		0.38	U	0.0039	0.38
Acetophenone		0.38	U	0.0061	0.38
Anthracene		0.38	U	0.0042	0.38
Atrazine		0.15	U	0.0096	0.15
Benzaldehyde		0.38	U	0.017	0.38
Benzo[a]anthracene		0.014	J	0.013	0.038
Benzo[a]pyrene		0.038	U	0.010	0.038
Benzo[b]fluoranthene		0.038	U	0.0098	0.038
Benzo[g,h,i]perylene		0.38	U	0.011	0.38
Benzo[k]fluoranthene		0.038	U	0.0074	0.038
Bis(2-chloroethoxy)methane		0.38	U	0.013	0.38
Bis(2-chloroethyl)ether		0.038	U	0.0046	0.038
Bis(2-ethylhexyl) phthalate		0.38	U	0.020	0.38
Butyl benzyl phthalate		0.38	U	0.018	0.38
Caprolactam		0.38	U	0.023	0.38
Carbazole		0.38	U	0.0044	0.38
Chrysene		0.013	J	0.0064	0.38
Dibenz(a,h)anthracene		0.038	U	0.016	0.038



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-021 (0-3")

Lab Sample ID: 460-156630-13

Client Matrix: Solid

% Moisture: 12.7

Date Sampled: 05/21/2018 1320

Date Received: 05/21/2018 2000

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079246.d

Dilution: 1.0

Initial Weight/Volume: 15.0198 g

Analysis Date: 05/24/2018 1618

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.38	U	0.0053	0.38
Diethyl phthalate		0.38	U	0.0055	0.38
Dimethyl phthalate		0.38	U	0.0046	0.38
Di-n-butyl phthalate		0.38	U	0.067	0.38
Di-n-octyl phthalate		0.38	U	0.020	0.38
Fluoranthene		0.017	J	0.0049	0.38
Fluorene		0.38	U	0.0051	0.38
Hexachlorobenzene		0.024	J	0.0055	0.038
Hexachlorobutadiene		0.077	U	0.0081	0.077
Hexachlorocyclopentadiene		0.38	U	0.033	0.38
Hexachloroethane		0.038	U	0.0058	0.038
Indeno[1,2,3-cd]pyrene		0.038	U	0.015	0.038
Isophorone		0.15	U	0.010	0.15
Naphthalene		0.38	U	0.0065	0.38
Nitrobenzene		0.038	U	0.0091	0.038
N-Nitrosodi-n-propylamine		0.038	U	0.0060	0.038
N-Nitrosodiphenylamine		0.38	U	0.0072	0.38
Pentachlorophenol		0.30	U	0.078	0.30
Phenanthrene		0.38	U	0.0067	0.38
Phenol		0.38	U	0.0056	0.38
Pyrene		0.38	U	0.0094	0.38

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	68		10 - 103
2-Fluorobiphenyl	61		38 - 95
2-Fluorophenol (Surr)	55		25 - 92
Nitrobenzene-d5 (Surr)	58		37 - 94
Phenol-d5 (Surr)	39		32 - 91
Terphenyl-d14 (Surr)	61		24 - 109



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-022 (0-3")

Lab Sample ID: 460-156630-15

Date Sampled: 05/21/2018 1340

Client Matrix: Solid

% Moisture: 16.2

Date Received: 05/21/2018 2000

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079247.d

Dilution: 1.0

Initial Weight/Volume: 15.0140 g

Analysis Date: 05/24/2018 1640

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.39	U	0.0052	0.39
1,2,4,5-Tetrachlorobenzene		0.39	U	0.0052	0.39
2,2'-oxybis[1-chloropropane]		0.39	U	0.0071	0.39
2,3,4,6-Tetrachlorophenol		0.39	U	0.027	0.39
2,4,5-Trichlorophenol		0.39	U	0.013	0.39
2,4,6-Trichlorophenol		0.16	U	0.020	0.16
2,4-Dichlorophenol		0.16	U	0.0083	0.16
2,4-Dimethylphenol		0.39	U	0.017	0.39
2,4-Dinitrophenol		0.32	U	0.19	0.32
2,4-Dinitrotoluene		0.080	U	0.020	0.080
2,6-Dinitrotoluene		0.080	U	0.013	0.080
2-Chloronaphthalene		0.39	U	0.018	0.39
2-Chlorophenol		0.39	U	0.0055	0.39
2-Methylnaphthalene		0.39	U	0.0049	0.39
2-Methylphenol		0.39	U	0.0064	0.39
2-Nitroaniline		0.39	U	0.015	0.39
2-Nitrophenol		0.39	U	0.013	0.39
3,3'-Dichlorobenzidine		0.16	U	0.060	0.16
3-Nitroaniline		0.39	U	0.021	0.39
4,6-Dinitro-2-methylphenol		0.32	U	0.064	0.32
4-Bromophenyl phenyl ether		0.39	U	0.0051	0.39
4-Chloro-3-methylphenol		0.39	U	0.0066	0.39
4-Chloroaniline		0.39	U	0.028	0.39
4-Chlorophenyl phenyl ether		0.39	U	0.0062	0.39
4-Methylphenol		0.39	U	0.0067	0.39
4-Nitroaniline		0.39	U	0.015	0.39
4-Nitrophenol		0.80	U	0.064	0.80
Acenaphthene		0.39	U	0.029	0.39
Acenaphthylene		0.39	U	0.0041	0.39
Acetophenone		0.39	U	0.0064	0.39
Anthracene		0.053	J	0.0044	0.39
Atrazine		0.16	U	0.010	0.16
Benzaldehyde		0.021	J	0.017	0.39
Benzo[a]anthracene		0.49		0.014	0.039
Benzo[a]pyrene		0.56		0.011	0.039
Benzo[b]fluoranthene		0.80		0.010	0.039
Benzo[g,h,i]perylene		0.33	J	0.012	0.39
Benzo[k]fluoranthene		0.039	U	0.0077	0.039
Bis(2-chloroethoxy)methane		0.39	U	0.014	0.39
Bis(2-chloroethyl)ether		0.039	U	0.0048	0.039
Bis(2-ethylhexyl) phthalate		0.39	U	0.021	0.39
Butyl benzyl phthalate		0.39	U	0.019	0.39
Caprolactam		0.39	U	0.024	0.39
Carbazole		0.058	J	0.0046	0.39
Chrysene		0.65		0.0067	0.39
Dibenz(a,h)anthracene		0.12		0.017	0.039



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-022 (0-3")**

Lab Sample ID: 460-156630-15

Date Sampled: 05/21/2018 1340

Client Matrix: Solid

% Moisture: 16.2

Date Received: 05/21/2018 2000

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079247.d

Dilution: 1.0

Initial Weight/Volume: 15.0140 g

Analysis Date: 05/24/2018 1640

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.39	U	0.0055	0.39
Diethyl phthalate		0.39	U	0.0057	0.39
Dimethyl phthalate		0.39	U	0.0048	0.39
Di-n-butyl phthalate		0.39	U	0.070	0.39
Di-n-octyl phthalate		0.39	U	0.021	0.39
Fluoranthene		0.71		0.0051	0.39
Fluorene		0.39	U	0.0054	0.39
Hexachlorobenzene		0.039	U	0.0058	0.039
Hexachlorobutadiene		0.080	U	0.0084	0.080
Hexachlorocyclopentadiene		0.39	U	0.035	0.39
Hexachloroethane		0.039	U	0.0061	0.039
Indeno[1,2,3-cd]pyrene		0.37		0.015	0.039
Isophorone		0.16	U	0.010	0.16
Naphthalene		0.39	U	0.0068	0.39
Nitrobenzene		0.039	U	0.0095	0.039
N-Nitrosodi-n-propylamine		0.039	U	0.0063	0.039
N-Nitrosodiphenylamine		0.39	U	0.0076	0.39
Pentachlorophenol		0.32	U	0.081	0.32
Phenanthrene		0.27	J	0.0069	0.39
Phenol		0.39	U	0.0058	0.39
Pyrene		0.72		0.0098	0.39

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	97		10 - 103
2-Fluorobiphenyl	79		38 - 95
2-Fluorophenol (Surr)	65		25 - 92
Nitrobenzene-d5 (Surr)	74		37 - 94
Phenol-d5 (Surr)	53		32 - 91
Terphenyl-d14 (Surr)	84		24 - 109



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-023 (18"-24")

Lab Sample ID: 460-156630-17

Date Sampled: 05/21/2018 1355

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/21/2018 2000

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079238.d

Dilution: 1.0

Initial Weight/Volume: 15.0149 g

Analysis Date: 05/24/2018 1318

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.38	U	0.0050	0.38
1,2,4,5-Tetrachlorobenzene		0.38	U	0.0050	0.38
2,2'-oxybis[1-chloropropane]		0.38	U	0.0069	0.38
2,3,4,6-Tetrachlorophenol		0.38	U	0.026	0.38
2,4,5-Trichlorophenol		0.38	U	0.012	0.38
2,4,6-Trichlorophenol		0.15	U	0.019	0.15
2,4-Dichlorophenol		0.15	U	0.0080	0.15
2,4-Dimethylphenol		0.38	U	0.017	0.38
2,4-Dinitrophenol		0.30	U	0.19	0.30
2,4-Dinitrotoluene		0.077	U	0.019	0.077
2,6-Dinitrotoluene		0.077	U	0.012	0.077
2-Chloronaphthalene		0.38	U	0.018	0.38
2-Chlorophenol		0.38	U	0.0053	0.38
2-Methylnaphthalene		0.38	U	0.0047	0.38
2-Methylphenol		0.38	U	0.0061	0.38
2-Nitroaniline		0.38	U	0.014	0.38
2-Nitrophenol		0.38	U	0.012	0.38
3,3'-Dichlorobenzidine		0.15	U	0.057	0.15
3-Nitroaniline		0.38	U	0.021	0.38
4,6-Dinitro-2-methylphenol		0.30	U	0.062	0.30
4-Bromophenyl phenyl ether		0.38	U	0.0049	0.38
4-Chloro-3-methylphenol		0.38	U	0.0063	0.38
4-Chloroaniline		0.38	U	0.027	0.38
4-Chlorophenyl phenyl ether		0.38	U	0.0060	0.38
4-Methylphenol		0.38	U	0.0065	0.38
4-Nitroaniline		0.38	U	0.014	0.38
4-Nitrophenol		0.77	U	0.062	0.77
Acenaphthene		0.38	U	0.028	0.38
Acenaphthylene		0.38	U	0.0039	0.38
Acetophenone		0.38	U	0.0061	0.38
Anthracene		0.38	U	0.0042	0.38
Atrazine		0.15	U	0.0096	0.15
Benzaldehyde		0.38	U	0.017	0.38
Benzo[a]anthracene		0.038	U	0.013	0.038
Benzo[a]pyrene		0.038	U	0.010	0.038
Benzo[b]fluoranthene		0.038	U	0.0098	0.038
Benzo[g,h,i]perylene		0.38	U	0.011	0.38
Benzo[k]fluoranthene		0.038	U	0.0074	0.038
Bis(2-chloroethoxy)methane		0.38	U	0.013	0.38
Bis(2-chloroethyl)ether		0.038	U	0.0046	0.038
Bis(2-ethylhexyl) phthalate		0.38	U	0.020	0.38
Butyl benzyl phthalate		0.38	U	0.018	0.38
Caprolactam		0.38	U	0.023	0.38
Carbazole		0.38	U	0.0044	0.38
Chrysene		0.38	U	0.0064	0.38
Dibenz(a,h)anthracene		0.038	U	0.016	0.038



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-023 (18"-24")**

Lab Sample ID: 460-156630-17

Date Sampled: 05/21/2018 1355

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/21/2018 2000

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079238.d

Dilution: 1.0

Initial Weight/Volume: 15.0149 g

Analysis Date: 05/24/2018 1318

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.38	U	0.0053	0.38
Diethyl phthalate		0.38	U	0.0055	0.38
Dimethyl phthalate		0.38	U	0.0046	0.38
Di-n-butyl phthalate		0.38	U	0.067	0.38
Di-n-octyl phthalate		0.38	U	0.020	0.38
Fluoranthene		0.38	U	0.0049	0.38
Fluorene		0.38	U	0.0051	0.38
Hexachlorobenzene		0.038	U	0.0056	0.038
Hexachlorobutadiene		0.077	U	0.0081	0.077
Hexachlorocyclopentadiene		0.38	U	0.033	0.38
Hexachloroethane		0.038	U	0.0058	0.038
Indeno[1,2,3-cd]pyrene		0.038	U	0.015	0.038
Isophorone		0.15	U	0.010	0.15
Naphthalene		0.38	U	0.0066	0.38
Nitrobenzene		0.038	U	0.0091	0.038
N-Nitrosodi-n-propylamine		0.038	U	0.0060	0.038
N-Nitrosodiphenylamine		0.38	U	0.0073	0.38
Pentachlorophenol		0.30	U	0.078	0.30
Phenanthrene		0.38	U	0.0067	0.38
Phenol		0.38	U	0.0056	0.38
Pyrene		0.38	U	0.0094	0.38

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	77		10 - 103
2-Fluorobiphenyl	68		38 - 95
2-Fluorophenol (Surr)	58		25 - 92
Nitrobenzene-d5 (Surr)	64		37 - 94
Phenol-d5 (Surr)	39		32 - 91
Terphenyl-d14 (Surr)	80		24 - 109



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-024 (0-3")**

Lab Sample ID: 460-156630-18

Date Sampled: 05/21/2018 1415

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079239.d

Dilution: 1.0

Initial Weight/Volume: 15.0178 g

Analysis Date: 05/24/2018 1340

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.35	U	0.0047	0.35
1,2,4,5-Tetrachlorobenzene		0.35	U	0.0046	0.35
2,2'-oxybis[1-chloropropane]		0.35	U	0.0064	0.35
2,3,4,6-Tetrachlorophenol		0.35	U	0.024	0.35
2,4,5-Trichlorophenol		0.35	U	0.012	0.35
2,4,6-Trichlorophenol		0.14	U	0.018	0.14
2,4-Dichlorophenol		0.14	U	0.0075	0.14
2,4-Dimethylphenol		0.35	U	0.016	0.35
2,4-Dinitrophenol		0.28	U	0.17	0.28
2,4-Dinitrotoluene		0.072	U	0.018	0.072
2,6-Dinitrotoluene		0.072	U	0.011	0.072
2-Chloronaphthalene		0.35	U	0.016	0.35
2-Chlorophenol		0.35	U	0.0050	0.35
2-Methylnaphthalene		0.35	U	0.0044	0.35
2-Methylphenol		0.35	U	0.0057	0.35
2-Nitroaniline		0.35	U	0.013	0.35
2-Nitrophenol		0.35	U	0.011	0.35
3,3'-Dichlorobenzidine		0.14	U	0.054	0.14
3-Nitroaniline		0.35	U	0.019	0.35
4,6-Dinitro-2-methylphenol		0.28	U	0.058	0.28
4-Bromophenyl phenyl ether		0.35	U	0.0046	0.35
4-Chloro-3-methylphenol		0.35	U	0.0059	0.35
4-Chloroaniline		0.35	U	0.025	0.35
4-Chlorophenyl phenyl ether		0.35	U	0.0056	0.35
4-Methylphenol		0.35	U	0.0060	0.35
4-Nitroaniline		0.35	U	0.013	0.35
4-Nitrophenol		0.72	U	0.058	0.72
Acenaphthene		0.35	U	0.026	0.35
Acenaphthylene		0.35	U	0.0037	0.35
Acetophenone		0.35	U	0.0057	0.35
Anthracene		0.35	U	0.0040	0.35
Atrazine		0.14	U	0.0089	0.14
Benzaldehyde		0.35	U	0.015	0.35
Benzo[a]anthracene		0.035	U	0.012	0.035
Benzo[a]pyrene		0.035	U	0.0094	0.035
Benzo[b]fluoranthene		0.035	U	0.0092	0.035
Benzo[g,h,i]perylene		0.35	U	0.010	0.35
Benzo[k]fluoranthene		0.035	U	0.0070	0.035
Bis(2-chloroethoxy)methane		0.35	U	0.012	0.35
Bis(2-chloroethyl)ether		0.035	U	0.0043	0.035
Bis(2-ethylhexyl) phthalate		0.35	U	0.019	0.35
Butyl benzyl phthalate		0.35	U	0.017	0.35
Caprolactam		0.35	U	0.021	0.35
Carbazole		0.35	U	0.0041	0.35
Chrysene		0.35	U	0.0060	0.35
Dibenz(a,h)anthracene		0.035	U	0.015	0.035



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-024 (0-3")**

Lab Sample ID: 460-156630-18

Date Sampled: 05/21/2018 1415

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079239.d

Dilution: 1.0

Initial Weight/Volume: 15.0178 g

Analysis Date: 05/24/2018 1340

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.35	U	0.0050	0.35
Diethyl phthalate		0.35	U	0.0051	0.35
Dimethyl phthalate		0.35	U	0.0043	0.35
Di-n-butyl phthalate		0.35	U	0.063	0.35
Di-n-octyl phthalate		0.35	U	0.019	0.35
Fluoranthene		0.35	U	0.0046	0.35
Fluorene		0.35	U	0.0048	0.35
Hexachlorobenzene		0.035	U	0.0052	0.035
Hexachlorobutadiene		0.072	U	0.0075	0.072
Hexachlorocyclopentadiene		0.35	U	0.031	0.35
Hexachloroethane		0.035	U	0.0055	0.035
Indeno[1,2,3-cd]pyrene		0.035	U	0.014	0.035
Isophorone		0.14	U	0.0093	0.14
Naphthalene		0.35	U	0.0061	0.35
Nitrobenzene		0.035	U	0.0085	0.035
N-Nitrosodi-n-propylamine		0.035	U	0.0056	0.035
N-Nitrosodiphenylamine		0.35	U	0.0068	0.35
Pentachlorophenol		0.28	U	0.073	0.28
Phenanthrene		0.35	U	0.0062	0.35
Phenol		0.35	U	0.0053	0.35
Pyrene		0.35	U	0.0088	0.35

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	70		10 - 103
2-Fluorobiphenyl	55		38 - 95
2-Fluorophenol (Surr)	50		25 - 92
Nitrobenzene-d5 (Surr)	53		37 - 94
Phenol-d5 (Surr)	45		32 - 91
Terphenyl-d14 (Surr)	64		24 - 109



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: DUP-002**

Lab Sample ID: 460-156630-19

Date Sampled: 05/21/2018 0000

Client Matrix: Solid

% Moisture: 17.9

Date Received: 05/21/2018 2000

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079240.d

Dilution: 1.0

Initial Weight/Volume: 15.0154 g

Analysis Date: 05/24/2018 1403

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		0.40	U	0.0053	0.40
1,2,4,5-Tetrachlorobenzene		0.40	U	0.0053	0.40
2,2'-oxybis[1-chloropropane]		0.40	U	0.0073	0.40
2,3,4,6-Tetrachlorophenol		0.40	U	0.027	0.40
2,4,5-Trichlorophenol		0.40	U	0.013	0.40
2,4,6-Trichlorophenol		0.16	U	0.020	0.16
2,4-Dichlorophenol		0.16	U	0.0085	0.16
2,4-Dimethylphenol		0.40	U	0.018	0.40
2,4-Dinitrophenol		0.32	U	0.20	0.32
2,4-Dinitrotoluene		0.082	U	0.020	0.082
2,6-Dinitrotoluene		0.082	U	0.013	0.082
2-Chloronaphthalene		0.40	U	0.019	0.40
2-Chlorophenol		0.40	U	0.0056	0.40
2-Methylnaphthalene		0.40	U	0.0050	0.40
2-Methylphenol		0.40	U	0.0065	0.40
2-Nitroaniline		0.40	U	0.015	0.40
2-Nitrophenol		0.40	U	0.013	0.40
3,3'-Dichlorobenzidine		0.16	U	0.061	0.16
3-Nitroaniline		0.40	U	0.022	0.40
4,6-Dinitro-2-methylphenol		0.32	U	0.065	0.32
4-Bromophenyl phenyl ether		0.40	U	0.0052	0.40
4-Chloro-3-methylphenol		0.40	U	0.0067	0.40
4-Chloroaniline		0.40	U	0.028	0.40
4-Chlorophenyl phenyl ether		0.40	U	0.0063	0.40
4-Methylphenol		0.40	U	0.0069	0.40
4-Nitroaniline		0.40	U	0.015	0.40
4-Nitrophenol		0.82	U	0.066	0.82
Acenaphthene		0.40	U	0.029	0.40
Acenaphthylene		0.40	U	0.0042	0.40
Acetophenone		0.40	U	0.0065	0.40
Anthracene		0.40	U	0.0045	0.40
Atrazine		0.16	U	0.010	0.16
Benzaldehyde		0.40	U	0.018	0.40
Benzo[a]anthracene		0.024	J	0.014	0.040
Benzo[a]pyrene		0.040	U	0.011	0.040
Benzo[b]fluoranthene		0.040	U	0.010	0.040
Benzo[g,h,i]perylene		0.40	U	0.012	0.40
Benzo[k]fluoranthene		0.040	U	0.0079	0.040
Bis(2-chloroethoxy)methane		0.40	U	0.014	0.40
Bis(2-chloroethyl)ether		0.040	U	0.0049	0.040
Bis(2-ethylhexyl) phthalate		0.40	U	0.021	0.40
Butyl benzyl phthalate		0.40	U	0.019	0.40
Caprolactam		0.40	U	0.024	0.40
Carbazole		0.40	U	0.0047	0.40
Chrysene		0.40	U	0.0068	0.40
Dibenz(a,h)anthracene		0.040	U	0.017	0.040



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: DUP-002**

Lab Sample ID: 460-156630-19

Date Sampled: 05/21/2018 0000

Client Matrix: Solid

% Moisture: 17.9

Date Received: 05/21/2018 2000

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-522029

Instrument ID: CBNAMS12

Prep Method: 3546

Prep Batch: 460-521793

Lab File ID: L2079240.d

Dilution: 1.0

Initial Weight/Volume: 15.0154 g

Analysis Date: 05/24/2018 1403

Final Weight/Volume: 1 mL

Prep Date: 05/23/2018 1044

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Dibenzofuran		0.40	U	0.0057	0.40
Diethyl phthalate		0.40	U	0.0058	0.40
Dimethyl phthalate		0.40	U	0.0049	0.40
Di-n-butyl phthalate		0.40	U	0.071	0.40
Di-n-octyl phthalate		0.40	U	0.021	0.40
Fluoranthene		0.035	J	0.0052	0.40
Fluorene		0.40	U	0.0055	0.40
Hexachlorobenzene		0.040	U	0.0059	0.040
Hexachlorobutadiene		0.082	U	0.0086	0.082
Hexachlorocyclopentadiene		0.40	U	0.035	0.40
Hexachloroethane		0.040	U	0.0062	0.040
Indeno[1,2,3-cd]pyrene		0.020	J	0.016	0.040
Isophorone		0.16	U	0.011	0.16
Naphthalene		0.40	U	0.0070	0.40
Nitrobenzene		0.040	U	0.0097	0.040
N-Nitrosodi-n-propylamine		0.040	U	0.0064	0.040
N-Nitrosodiphenylamine		0.40	U	0.0077	0.40
Pentachlorophenol		0.32	U	0.083	0.32
Phenanthrene		0.40	U	0.0071	0.40
Phenol		0.40	U	0.0060	0.40
Pyrene		0.40	U	0.010	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	80		10 - 103
2-Fluorobiphenyl	62		38 - 95
2-Fluorophenol (Surr)	55		25 - 92
Nitrobenzene-d5 (Surr)	58		37 - 94
Phenol-d5 (Surr)	39		32 - 91
Terphenyl-d14 (Surr)	70		24 - 109



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: EB-002

Lab Sample ID: 460-156630-20

Client Matrix: Water

Date Sampled: 05/21/2018 1430

Date Received: 05/21/2018 2000

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	460-521850	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-521687	Lab File ID:	A153281.D
Dilution:	1.0			Initial Weight/Volume:	235 mL
Analysis Date:	05/23/2018 1740			Final Weight/Volume:	2 mL
Prep Date:	05/23/2018 0638			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	11	U	1.3	11
1,2,4,5-Tetrachlorobenzene	11	U	1.3	11
2,2'-oxybis[1-chloropropane]	11	U	0.67	11
2,3,4,6-Tetrachlorophenol	11	U	0.79	11
2,4,5-Trichlorophenol	11	U	0.30	11
2,4,6-Trichlorophenol	11	U	0.32	11
2,4-Dichlorophenol	11	U	0.45	11
2,4-Dimethylphenol	11	U	0.25	11
2,4-Dinitrophenol	21	U	15	21
2,4-Dinitrotoluene	2.1	U	1.1	2.1
2,6-Dinitrotoluene	2.1	U	0.41	2.1
2-Chloronaphthalene	11	U	1.3	11
2-Chlorophenol	11	U	0.40	11
2-Methylnaphthalene	11	U	1.2	11
2-Methylphenol	11	U	0.28	11
2-Nitroaniline	11	U	0.50	11
2-Nitrophenol	11	U	0.79	11
3,3'-Dichlorobenzidine	11	U	1.5	11
3-Nitroaniline	11	U	1.0	11
4,6-Dinitro-2-methylphenol	21	U	14	21
4-Bromophenyl phenyl ether	11	U	0.79	11
4-Chloro-3-methylphenol	11	U	0.61	11
4-Chloroaniline	11	U	2.0	11
4-Chlorophenyl phenyl ether	11	U	1.4	11
4-Methylphenol	11	U	0.25	11
4-Nitroaniline	11	U	0.58	11
4-Nitrophenol	21	U	0.73	21
Acenaphthene	11	U	1.1	11
Acenaphthylene	11	U	0.88	11
Acetophenone	3.1	J	0.84	11
Anthracene	11	U	0.67	11
Atrazine	2.1	U	1.4	2.1
Benzaldehyde	11	U *	0.63	11
Benzo[a]anthracene	1.1	U	0.63	1.1
Benzo[a]pyrene	1.1	U	0.43	1.1
Benzo[b]fluoranthene	2.1	U	1.2	2.1
Benzo[g,h,i]perylene	11	U	1.5	11
Benzo[k]fluoranthene	1.1	U	0.72	1.1
Bis(2-chloroethoxy)methane	11	U *	0.25	11
Bis(2-chloroethyl)ether	1.1	U	0.31	1.1
Bis(2-ethylhexyl) phthalate	2.1	U	1.8	2.1
Butyl benzyl phthalate	11	U	0.91	11
Caprolactam	11	U	0.73	11
Carbazole	11	U	0.72	11
Chrysene	2.1	U	0.96	2.1
Dibenz(a,h)anthracene	1.1	U	0.77	1.1



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: EB-002

Lab Sample ID: 460-156630-20

Client Matrix: Water

Date Sampled: 05/21/2018 1430

Date Received: 05/21/2018 2000

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	460-521850	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-521687	Lab File ID:	A153281.D
Dilution:	1.0			Initial Weight/Volume:	235 mL
Analysis Date:	05/23/2018 1740			Final Weight/Volume:	2 mL
Prep Date:	05/23/2018 0638			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	11	U	1.2	11
Diethyl phthalate	1.2	J	1.0	11
Dimethyl phthalate	11	U	0.81	11
Di-n-butyl phthalate	11	U	0.89	11
Di-n-octyl phthalate	11	U *	5.1	11
Fluoranthene	11	U	0.90	11
Fluorene	11	U	0.97	11
Hexachlorobenzene	1.1	U	0.42	1.1
Hexachlorobutadiene	1.1	U	0.83	1.1
Hexachlorocyclopentadiene	11	U	1.8	11
Hexachloroethane	2.1	U	1.3	2.1
Indeno[1,2,3-cd]pyrene	2.1	U	1.4	2.1
Isophorone	11	U	0.85	11
Naphthalene	11	U	1.2	11
Nitrobenzene	1.1	U	0.60	1.1
N-Nitrosodi-n-propylamine	1.1	U	0.46	1.1
N-Nitrosodiphenylamine	11	U	0.95	11
Pentachlorophenol	21	U	1.5	21
Phenanthrene	11	U	0.62	11
Phenol	11	U	0.31	11
Pyrene	11	U	1.7	11
Surrogate	%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)	68		26 - 139	
2-Fluorobiphenyl	82		45 - 107	
2-Fluorophenol (Surr)	25		25 - 58	
Nitrobenzene-d5 (Surr)	82		51 - 108	
Phenol-d5 (Surr)	54	X	14 - 39	
Terphenyl-d14 (Surr)	90		40 - 148	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-011 (0-3")

Lab Sample ID: 460-156630-1

Client Matrix: Solid

% Moisture: 8.3

Date Sampled: 05/21/2018 0850

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522463

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0160 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1005

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0073	U	0.0012	0.0073
4,4'-DDE		0.0073	U F1	0.00086	0.0073
4,4'-DDT		0.0039	J F1	0.0013	0.0073
Aldrin		0.0073	U	0.0011	0.0073
alpha-BHC		0.0022	U	0.00074	0.0022
beta-BHC		0.0022	U F1	0.00082	0.0022
Chlordane (technical)		0.11		0.018	0.073
delta-BHC		0.0022	U	0.00045	0.0022
Dieldrin		0.0076	F1	0.00095	0.0022
Endosulfan I		0.0073	U F1	0.0011	0.0073
Endosulfan II		0.0073	U F1	0.0019	0.0073
Endosulfan sulfate		0.0073	U F1	0.00091	0.0073
Endrin		0.0073	U F1	0.0010	0.0073
Endrin aldehyde		0.0073	U F1	0.0017	0.0073
Endrin ketone		0.0073	U F1	0.0014	0.0073
gamma-BHC (Lindane)		0.0022	U	0.00068	0.0022
Heptachlor		0.0073	U	0.00086	0.0073
Heptachlor epoxide		0.0029	J F1	0.0011	0.0073
Methoxychlor		0.0073	U	0.0017	0.0073
Toxaphene		0.073	U	0.026	0.073

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	74		69 - 150
Tetrachloro-m-xylene	81		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-011 (0-3")**

Lab Sample ID: 460-156630-1

Date Sampled: 05/21/2018 0850

Client Matrix: Solid

% Moisture: 8.3

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522463

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0160 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1005

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	63	X	69 - 150
Tetrachloro-m-xylene	78		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-011 (18"-24")

Lab Sample ID: 460-156630-2

Date Sampled: 05/21/2018 0905

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-522119	Instrument ID:	CPESTGC5
Prep Method:	3546	Prep Batch:	460-521834	Initial Weight/Volume:	15.0227 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/24/2018 1232			Injection Volume:	1 uL
Prep Date:	05/23/2018 1318			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0072	U	0.0012	0.0072
4,4'-DDE		0.0072	U	0.00085	0.0072
4,4'-DDT		0.059		0.0013	0.0072
Aldrin		0.0072	U	0.0011	0.0072
alpha-BHC		0.0021	U	0.00073	0.0021
beta-BHC		0.0021	U	0.00080	0.0021
Chlordane (technical)		0.28		0.017	0.072
delta-BHC		0.0021	U	0.00044	0.0021
Dieldrin		0.0021	U	0.00093	0.0021
Endosulfan I		0.0072	U	0.0011	0.0072
Endosulfan II		0.0072	U	0.0018	0.0072
Endosulfan sulfate		0.0072	U	0.00090	0.0072
Endrin		0.0072	U	0.0010	0.0072
Endrin aldehyde		0.0072	U	0.0017	0.0072
Endrin ketone		0.0072	U	0.0014	0.0072
gamma-BHC (Lindane)		0.0021	U	0.00066	0.0021
Heptachlor		0.0072	U	0.00085	0.0072
Heptachlor epoxide		0.0040	J	0.0011	0.0072
Methoxychlor		0.0072	U	0.0016	0.0072
Toxaphene		0.072	U	0.026	0.072
Surrogate		%Rec	Qualifier	Acceptance Limits	
DCB Decachlorobiphenyl		87		69 - 150	
Tetrachloro-m-xylene		91		74 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-011 (18"-24")**

Lab Sample ID: 460-156630-2

Date Sampled: 05/21/2018 0905

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0227 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1232

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	70		69 - 150
Tetrachloro-m-xylene	81		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-012 (0-3")

Lab Sample ID: 460-156630-3

Client Matrix: Solid

% Moisture: 38.4

Date Sampled: 05/21/2018 0920

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0108 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1245

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.011	U	0.0019	0.011
4,4'-DDE		0.011	U	0.0013	0.011
4,4'-DDT		0.011	U	0.0020	0.011
Aldrin		0.011	U	0.0016	0.011
alpha-BHC		0.0032	U	0.0011	0.0032
beta-BHC		0.0032	U	0.0012	0.0032
Chlordane (technical)		1.1		0.026	0.11
delta-BHC		0.0032	U	0.00067	0.0032
Dieldrin		0.0032	U	0.0014	0.0032
Endosulfan I		0.011	U	0.0017	0.011
Endosulfan II		0.011	U	0.0028	0.011
Endosulfan sulfate		0.011	U	0.0014	0.011
Endrin		0.011	U	0.0016	0.011
Endrin aldehyde		0.011	U	0.0026	0.011
Endrin ketone		0.011	U	0.0021	0.011
gamma-BHC (Lindane)		0.0032	U	0.0010	0.0032
Heptachlor		0.011	U	0.0013	0.011
Heptachlor epoxide		0.33		0.0016	0.011
Methoxychlor		0.011	U	0.0025	0.011
Toxaphene		0.11	U	0.039	0.11

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	88		69 - 150
Tetrachloro-m-xylene	85		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-012 (0-3")**

Lab Sample ID: 460-156630-3

Date Sampled: 05/21/2018 0920

Client Matrix: Solid

% Moisture: 38.4

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0108 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1245

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	82		69 - 150
Tetrachloro-m-xylene	77		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-013 (0-3")

Lab Sample ID: 460-156630-4

Client Matrix: Solid

% Moisture: 31.5

Date Sampled: 05/21/2018 0935

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0255 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1258

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0098	U	0.0017	0.0098
4,4'-DDE		0.0098	U	0.0012	0.0098
4,4'-DDT		0.0098	U	0.0018	0.0098
Aldrin		0.0098	U	0.0015	0.0098
alpha-BHC		0.0029	U	0.00099	0.0029
beta-BHC		0.0029	U	0.0011	0.0029
Chlordane (technical)		0.098	U	0.024	0.098
delta-BHC		0.0029	U	0.00060	0.0029
Dieldrin		0.0029	U	0.0013	0.0029
Endosulfan I		0.0098	U	0.0015	0.0098
Endosulfan II		0.0098	U	0.0025	0.0098
Endosulfan sulfate		0.0098	U	0.0012	0.0098
Endrin		0.0098	U	0.0014	0.0098
Endrin aldehyde		0.0098	U	0.0023	0.0098
Endrin ketone		0.0098	U	0.0019	0.0098
gamma-BHC (Lindane)		0.0029	U	0.00090	0.0029
Heptachlor		0.0098	U	0.0012	0.0098
Heptachlor epoxide		0.0098	U	0.0015	0.0098
Methoxychlor		0.0098	U	0.0022	0.0098
Toxaphene		0.098	U	0.035	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	93		69 - 150
Tetrachloro-m-xylene	91		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-013 (0-3")**

Lab Sample ID: 460-156630-4

Date Sampled: 05/21/2018 0935

Client Matrix: Solid

% Moisture: 31.5

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0255 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1258

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	81		69 - 150
Tetrachloro-m-xylene	88		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-014 (0-3")

Lab Sample ID: 460-156630-5

Client Matrix: Solid

% Moisture: 18.9

Date Sampled: 05/21/2018 0950

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0364 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1311

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0082	U	0.0014	0.0082
4,4'-DDE		0.0082	U	0.00097	0.0082
4,4'-DDT		0.0099		0.0015	0.0082
Aldrin		0.0082	U	0.0012	0.0082
alpha-BHC		0.0025	U	0.00084	0.0025
beta-BHC		0.0025	U	0.00092	0.0025
Chlordane (technical)		0.47		0.020	0.082
delta-BHC		0.0025	U	0.00050	0.0025
Dieldrin		0.026		0.0011	0.0025
Endosulfan I		0.0082	U	0.0013	0.0082
Endosulfan II		0.0082	U	0.0021	0.0082
Endosulfan sulfate		0.0082	U	0.0010	0.0082
Endrin		0.0082	U	0.0012	0.0082
Endrin aldehyde		0.0082	U	0.0019	0.0082
Endrin ketone		0.0082	U	0.0016	0.0082
gamma-BHC (Lindane)		0.0025	U	0.00076	0.0025
Heptachlor		0.0082	U	0.00097	0.0082
Heptachlor epoxide		0.25		0.0012	0.0082
Methoxychlor		0.0082	U	0.0019	0.0082
Toxaphene		0.082	U	0.030	0.082

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	90		69 - 150
Tetrachloro-m-xylene	82		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-014 (0-3")**

Lab Sample ID: 460-156630-5

Date Sampled: 05/21/2018 0950

Client Matrix: Solid

% Moisture: 18.9

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0364 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1311

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	78		69 - 150
Tetrachloro-m-xylene	78		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-015 (0-3")

Lab Sample ID: 460-156630-6

Client Matrix: Solid

% Moisture: 13.8

Date Sampled: 05/21/2018 1015

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 5.0

Analysis Date: 05/25/2018 0901

Prep Date: 05/23/2018 1318

Analysis Batch: 460-522463

Prep Batch: 460-521834

Run Type: DL

Instrument ID: CPESTGC5

Initial Weight/Volume: 15.0381 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.039	U	0.0066	0.039
4,4'-DDE		0.039	U	0.0046	0.039
4,4'-DDT		0.039	U	0.0071	0.039
Aldrin		0.039	U	0.0058	0.039
alpha-BHC		0.012	U	0.0039	0.012
beta-BHC		0.012	U	0.0043	0.012
Chlordane (technical)		4.9		0.094	0.39
delta-BHC		0.012	U	0.0024	0.012
Dieldrin		0.012	U	0.0050	0.012
Endosulfan I		0.039	U	0.0059	0.039
Endosulfan II		0.039	U	0.010	0.039
Endosulfan sulfate		0.039	U	0.0049	0.039
Endrin		0.039	U	0.0056	0.039
Endrin aldehyde		0.039	U	0.0091	0.039
Endrin ketone		0.039	U	0.0075	0.039
gamma-BHC (Lindane)		0.012	U	0.0036	0.012
Heptachlor		0.039	U	0.0046	0.039
Heptachlor epoxide		0.26		0.0058	0.039
Methoxychlor		0.039	U	0.0089	0.039
Toxaphene		0.39	U	0.14	0.39

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	108		69 - 150
Tetrachloro-m-xylene	75		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID:** SS-015 (0-3")

Lab Sample ID: 460-156630-6

Date Sampled: 05/21/2018 1015

Client Matrix: Solid

% Moisture: 13.8

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522463

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0381 g

Dilution: 5.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0901

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	91		69 - 150
Tetrachloro-m-xylene	70	X	74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-016 (0-3")

Lab Sample ID: 460-156630-7

Client Matrix: Solid

% Moisture: 30.8

Date Sampled: 05/21/2018 1030

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0276 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1337

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0097	U	0.0016	0.0097
4,4'-DDE		0.0097	U	0.0011	0.0097
4,4'-DDT		0.0097	U	0.0018	0.0097
Aldrin		0.0097	U	0.0015	0.0097
alpha-BHC		0.0029	U	0.00098	0.0029
beta-BHC		0.0029	U	0.0011	0.0029
Chlordane (technical)		0.097	U	0.023	0.097
delta-BHC		0.0029	U	0.00059	0.0029
Dieldrin		0.0029	U	0.0013	0.0029
Endosulfan I		0.0097	U	0.0015	0.0097
Endosulfan II		0.0097	U	0.0025	0.0097
Endosulfan sulfate		0.0097	U	0.0012	0.0097
Endrin		0.0097	U	0.0014	0.0097
Endrin aldehyde		0.0097	U	0.0023	0.0097
Endrin ketone		0.0097	U	0.0019	0.0097
gamma-BHC (Lindane)		0.0029	U	0.00089	0.0029
Heptachlor		0.0097	U	0.0011	0.0097
Heptachlor epoxide		0.0097	U	0.0014	0.0097
Methoxychlor		0.0097	U	0.0022	0.0097
Toxaphene		0.097	U	0.035	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	89		69 - 150
Tetrachloro-m-xylene	87		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-016 (0-3")**

Lab Sample ID: 460-156630-7

Date Sampled: 05/21/2018 1030

Client Matrix: Solid

% Moisture: 30.8

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0276 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1337

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	76		69 - 150
Tetrachloro-m-xylene	78		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-017 (0-3")

Lab Sample ID: 460-156630-8

Client Matrix: Solid

% Moisture: 27.5

Date Sampled: 05/21/2018 1045

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 05/24/2018 1350

Prep Date: 05/23/2018 1318

Analysis Batch: 460-522119

Prep Batch: 460-521834

Instrument ID: CPESTGC5

Initial Weight/Volume: 15.0212 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0092	U	0.0016	0.0092
4,4'-DDE		0.0092	U	0.0011	0.0092
4,4'-DDT		0.0092	U	0.0017	0.0092
Aldrin		0.0092	U	0.0014	0.0092
alpha-BHC		0.0028	U	0.00094	0.0028
beta-BHC		0.0028	U	0.0010	0.0028
Chlordane (technical)		0.092	U	0.022	0.092
delta-BHC		0.0028	U	0.00056	0.0028
Dieldrin		0.0028	U	0.0012	0.0028
Endosulfan I		0.0092	U	0.0014	0.0092
Endosulfan II		0.0092	U	0.0024	0.0092
Endosulfan sulfate		0.0092	U	0.0012	0.0092
Endrin		0.0092	U	0.0013	0.0092
Endrin aldehyde		0.0092	U	0.0022	0.0092
Endrin ketone		0.0092	U	0.0018	0.0092
gamma-BHC (Lindane)		0.0028	U	0.00085	0.0028
Heptachlor		0.0092	U	0.0011	0.0092
Heptachlor epoxide		0.0061	J	0.0014	0.0092
Methoxychlor		0.0092	U	0.0021	0.0092
Toxaphene		0.092	U	0.033	0.092

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	89		69 - 150
Tetrachloro-m-xylene	97		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-017 (0-3")**

Lab Sample ID: 460-156630-8

Date Sampled: 05/21/2018 1045

Client Matrix: Solid

% Moisture: 27.5

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0212 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1350

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	79		69 - 150
Tetrachloro-m-xylene	85		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-017 (18"-24")

Lab Sample ID: 460-156630-9

Date Sampled: 05/21/2018 1050

Client Matrix: Solid

% Moisture: 17.7

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-522119	Instrument ID:	CPESTGC5
Prep Method:	3546	Prep Batch:	460-521834	Initial Weight/Volume:	15.0381 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/24/2018 1402			Injection Volume:	1 uL
Prep Date:	05/23/2018 1318			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0081	U	0.0014	0.0081
4,4'-DDE		0.0081	U	0.00096	0.0081
4,4'-DDT		0.0081	U	0.0015	0.0081
Aldrin		0.0081	U	0.0012	0.0081
alpha-BHC		0.0024	U	0.00082	0.0024
beta-BHC		0.0024	U	0.00091	0.0024
Chlordane (technical)		0.081	U	0.020	0.081
delta-BHC		0.0024	U	0.00050	0.0024
Dieldrin		0.0024	U	0.0011	0.0024
Endosulfan I		0.0081	U	0.0012	0.0081
Endosulfan II		0.0081	U	0.0021	0.0081
Endosulfan sulfate		0.0081	U	0.0010	0.0081
Endrin		0.0081	U	0.0012	0.0081
Endrin aldehyde		0.0081	U	0.0019	0.0081
Endrin ketone		0.0081	U	0.0016	0.0081
gamma-BHC (Lindane)		0.0024	U	0.00075	0.0024
Heptachlor		0.0081	U	0.00096	0.0081
Heptachlor epoxide		0.0081	U	0.0012	0.0081
Methoxychlor		0.0081	U	0.0019	0.0081
Toxaphene		0.081	U	0.029	0.081

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	108		69 - 150
Tetrachloro-m-xylene	103		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-017 (18"-24")**

Lab Sample ID: 460-156630-9

Date Sampled: 05/21/2018 1050

Client Matrix: Solid

% Moisture: 17.7

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0381 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1402

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	94		69 - 150
Tetrachloro-m-xylene	100		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-018 (0-3")

Lab Sample ID: 460-156630-10

Client Matrix: Solid

% Moisture: 15.5

Date Sampled: 05/21/2018 1105

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 10

Analysis Date: 05/25/2018 0914

Prep Date: 05/23/2018 1318

Analysis Batch: 460-522463

Prep Batch: 460-521834

Run Type: DL

Instrument ID: CPESTGC5

Initial Weight/Volume: 15.0102 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.079	U	0.013	0.079
4,4'-DDE		0.079	U	0.0093	0.079
4,4'-DDT		0.079	U	0.015	0.079
Aldrin		0.079	U	0.012	0.079
alpha-BHC		0.024	U	0.0080	0.024
beta-BHC		0.061		0.0089	0.024
Chlordane (technical)		9.7		0.19	0.79
delta-BHC		0.024	U	0.0048	0.024
Dieldrin		0.024	U	0.010	0.024
Endosulfan I		0.079	U	0.012	0.079
Endosulfan II		0.079	U	0.020	0.079
Endosulfan sulfate		0.079	U	0.0099	0.079
Endrin		0.079	U	0.011	0.079
Endrin aldehyde		0.079	U	0.019	0.079
Endrin ketone		0.079	U	0.015	0.079
gamma-BHC (Lindane)		0.024	U	0.0073	0.024
Heptachlor		0.079	U	0.0093	0.079
Heptachlor epoxide		0.60		0.012	0.079
Methoxychlor		0.079	U	0.018	0.079
Toxaphene		0.79	U	0.29	0.79

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	130		69 - 150
Tetrachloro-m-xylene	93		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-018 (0-3")**

Lab Sample ID: 460-156630-10

Date Sampled: 05/21/2018 1105

Client Matrix: Solid

% Moisture: 15.5

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522463

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0102 g

Dilution: 10

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0914

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	125		69 - 150
Tetrachloro-m-xylene	88		74 - 150



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-019 (0-3")

Lab Sample ID: 460-156630-11

Client Matrix: Solid

% Moisture: 17.1

Date Sampled: 05/21/2018 1125

Date Received: 05/21/2018 2000

## 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B	Analysis Batch: 460-522463	Instrument ID: CPESTGC5
Prep Method: 3546	Prep Batch: 460-521834	Initial Weight/Volume: 15.0223 g
Dilution: 20		Final Weight/Volume: 10 mL
Analysis Date: 05/25/2018 1156	Run Type: DL	Injection Volume: 1 uL
Prep Date: 05/23/2018 1318		Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.16	U	0.027	0.16
4,4'-DDE		0.16	U	0.019	0.16
4,4'-DDT		0.16	U	0.030	0.16
Aldrin		0.16	U	0.024	0.16
alpha-BHC		0.048	U	0.016	0.048
beta-BHC		0.15		0.018	0.048
Chlordane (technical)		26		0.39	1.6
delta-BHC		0.048	U	0.0099	0.048
Dieldrin		0.048	U	0.021	0.048
Endosulfan I		0.16	U	0.025	0.16
Endosulfan II		0.16	U	0.041	0.16
Endosulfan sulfate		0.16	U	0.020	0.16
Endrin		0.16	U	0.023	0.16
Endrin aldehyde		0.16	U	0.038	0.16
Endrin ketone		0.16	U	0.031	0.16
gamma-BHC (Lindane)		0.048	U	0.015	0.048
Heptachlor		0.16	U	0.019	0.16
Heptachlor epoxide		0.98		0.024	0.16
Methoxychlor		0.16	U	0.037	0.16
Toxaphene		1.6	U	0.58	1.6

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	114		69 - 150
Tetrachloro-m-xylene	80		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-019 (0-3")**

Lab Sample ID: 460-156630-11

Date Sampled: 05/21/2018 1125

Client Matrix: Solid

% Moisture: 17.1

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522463

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0223 g

Dilution: 20

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1156

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	104		69 - 150
Tetrachloro-m-xylene	79		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-020 (0-3")

Lab Sample ID: 460-156630-12

Client Matrix: Solid

% Moisture: 18.6

Date Sampled: 05/21/2018 1245

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 05/24/2018 1441

Prep Date: 05/23/2018 1318

Analysis Batch: 460-522119

Prep Batch: 460-521834

Instrument ID: CPESTGC5

Initial Weight/Volume: 15.0328 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0082	U	0.0014	0.0082
4,4'-DDE		0.0082	U	0.00097	0.0082
4,4'-DDT		0.0082	U	0.0015	0.0082
Aldrin		0.0082	U	0.0012	0.0082
alpha-BHC		0.0025	U	0.00083	0.0025
beta-BHC		0.0025	U	0.00092	0.0025
Chlordane (technical)		0.082	U	0.020	0.082
delta-BHC		0.0025	U	0.00050	0.0025
Dieldrin		0.0025	U	0.0011	0.0025
Endosulfan I		0.0082	U	0.0013	0.0082
Endosulfan II		0.0082	U	0.0021	0.0082
Endosulfan sulfate		0.0082	U	0.0010	0.0082
Endrin		0.0082	U	0.0012	0.0082
Endrin aldehyde		0.0082	U	0.0019	0.0082
Endrin ketone		0.0082	U	0.0016	0.0082
gamma-BHC (Lindane)		0.0025	U	0.00076	0.0025
Heptachlor		0.0082	U	0.00097	0.0082
Heptachlor epoxide		0.0082	U	0.0012	0.0082
Methoxychlor		0.0082	U	0.0019	0.0082
Toxaphene		0.082	U	0.030	0.082

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	86		69 - 150
Tetrachloro-m-xylene	83		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-020 (0-3")**

Lab Sample ID: 460-156630-12

Date Sampled: 05/21/2018 1245

Client Matrix: Solid

% Moisture: 18.6

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0328 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1441

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	75		69 - 150
Tetrachloro-m-xylene	78		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-021 (0-3")

Lab Sample ID: 460-156630-13

Client Matrix: Solid

% Moisture: 12.7

Date Sampled: 05/21/2018 1320

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 20

Analysis Date: 05/25/2018 0939

Prep Date: 05/23/2018 1318

Analysis Batch: 460-522463

Prep Batch: 460-521834

Run Type: DL

Instrument ID: CPESTGC5

Initial Weight/Volume: 15.0364 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.15	U	0.026	0.15
4,4'-DDE		0.15	U	0.018	0.15
4,4'-DDT		0.15	U	0.028	0.15
Aldrin		0.15	U	0.023	0.15
alpha-BHC		0.046	U	0.016	0.046
beta-BHC		0.046	U	0.017	0.046
Chlordane (technical)		17		0.37	1.5
delta-BHC		0.046	U	0.0094	0.046
Dieldrin		0.046	U	0.020	0.046
Endosulfan I		0.15	U	0.023	0.15
Endosulfan II		0.15	U	0.039	0.15
Endosulfan sulfate		0.15	U	0.019	0.15
Endrin		0.15	U	0.022	0.15
Endrin aldehyde		0.15	U	0.036	0.15
Endrin ketone		0.15	U	0.030	0.15
gamma-BHC (Lindane)		0.046	U	0.014	0.046
Heptachlor		0.15	U	0.018	0.15
Heptachlor epoxide		0.81		0.023	0.15
Methoxychlor		0.15	U	0.035	0.15
Toxaphene		1.5	U	0.55	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	130		69 - 150
Tetrachloro-m-xylene	98		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-021 (0-3")**

Lab Sample ID: 460-156630-13

Date Sampled: 05/21/2018 1320

Client Matrix: Solid

% Moisture: 12.7

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522463

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0364 g

Dilution: 20

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0939

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	111		69 - 150
Tetrachloro-m-xylene	96		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-021 (18"-24")

Lab Sample ID: 460-156630-14

Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 05/21/2018 1325

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0148 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1507

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0080	U	0.0014	0.0080
4,4'-DDE		0.0080	U	0.00094	0.0080
4,4'-DDT		0.0080	U	0.0015	0.0080
Aldrin		0.0080	U	0.0012	0.0080
alpha-BHC		0.0031		0.00081	0.0024
beta-BHC		0.0024	U	0.00089	0.0024
Chlordane (technical)		0.49		0.019	0.080
delta-BHC		0.0024	U	0.00049	0.0024
Dieldrin		0.0024	U	0.0010	0.0024
Endosulfan I		0.0080	U	0.0012	0.0080
Endosulfan II		0.0080	U	0.0020	0.0080
Endosulfan sulfate		0.0080	U	0.0010	0.0080
Endrin		0.0080	U	0.0011	0.0080
Endrin aldehyde		0.0080	U	0.0019	0.0080
Endrin ketone		0.0080	U	0.0015	0.0080
gamma-BHC (Lindane)		0.0024	U	0.00074	0.0024
Heptachlor		0.0080	U	0.00094	0.0080
Heptachlor epoxide		0.035		0.0012	0.0080
Methoxychlor		0.0080	U	0.0018	0.0080
Toxaphene		0.080	U	0.029	0.080

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	92		69 - 150
Tetrachloro-m-xylene	91		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-021 (18"-24")**

Lab Sample ID: 460-156630-14

Date Sampled: 05/21/2018 1325

Client Matrix: Solid

% Moisture: 15.9

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0148 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1507

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	79		69 - 150
Tetrachloro-m-xylene	83		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-022 (0-3")

Lab Sample ID: 460-156630-15

Client Matrix: Solid

% Moisture: 16.2

Date Sampled: 05/21/2018 1340

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0109 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1520

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0080	U	0.0014	0.0080
4,4'-DDE		0.0080	U	0.00094	0.0080
4,4'-DDT		0.0080	U	0.0015	0.0080
Aldrin		0.0080	U	0.0012	0.0080
alpha-BHC		0.0024	U	0.00081	0.0024
beta-BHC		0.0024	U	0.00089	0.0024
Chlordane (technical)		1.0		0.019	0.080
delta-BHC		0.0024	U	0.00049	0.0024
Dieldrin		0.0024	U	0.0010	0.0024
Endosulfan I		0.0080	U	0.0012	0.0080
Endosulfan II		0.0080	U	0.0021	0.0080
Endosulfan sulfate		0.0080	U	0.0010	0.0080
Endrin		0.0080	U	0.0011	0.0080
Endrin aldehyde		0.0080	U	0.0019	0.0080
Endrin ketone		0.0080	U	0.0016	0.0080
gamma-BHC (Lindane)		0.0024	U	0.00074	0.0024
Heptachlor		0.0080	U	0.00094	0.0080
Heptachlor epoxide		0.26		0.0012	0.0080
Methoxychlor		0.0080	U	0.0018	0.0080
Toxaphene		0.080	U	0.029	0.080

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	90		69 - 150
Tetrachloro-m-xylene	75		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-022 (0-3")**

Lab Sample ID: 460-156630-15

Date Sampled: 05/21/2018 1340

Client Matrix: Solid

% Moisture: 16.2

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0109 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1520

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	80		69 - 150
Tetrachloro-m-xylene	75		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-023 (0-3")

Lab Sample ID: 460-156630-16

Client Matrix: Solid

% Moisture: 19.1

Date Sampled: 05/21/2018 1350

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0118 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1532

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0083	U	0.0014	0.0083
4,4'-DDE		0.0083	U	0.00098	0.0083
4,4'-DDT		0.061		0.0015	0.0083
Aldrin		0.0083	U	0.0012	0.0083
alpha-BHC		0.0025	U	0.00084	0.0025
beta-BHC		0.0025	U	0.00093	0.0025
Chlordane (technical)		0.37		0.020	0.083
delta-BHC		0.0025	U	0.00051	0.0025
Dieldrin		0.0025	U	0.0011	0.0025
Endosulfan I		0.0083	U	0.0013	0.0083
Endosulfan II		0.0083	U	0.0021	0.0083
Endosulfan sulfate		0.0083	U	0.0010	0.0083
Endrin		0.0083	U	0.0012	0.0083
Endrin aldehyde		0.0083	U	0.0020	0.0083
Endrin ketone		0.0083	U	0.0016	0.0083
gamma-BHC (Lindane)		0.0025	U	0.00077	0.0025
Heptachlor		0.0083	U	0.00098	0.0083
Heptachlor epoxide		0.011		0.0012	0.0083
Methoxychlor		0.0083	U	0.0019	0.0083
Toxaphene		0.083	U	0.030	0.083

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	88		69 - 150
Tetrachloro-m-xylene	77		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-023 (0-3")

Lab Sample ID: 460-156630-16

Date Sampled: 05/21/2018 1350

Client Matrix: Solid

% Moisture: 19.1

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0118 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1532

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	77		69 - 150
Tetrachloro-m-xylene	71	X	74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-023 (18"-24")**

Lab Sample ID: 460-156630-17

Date Sampled: 05/21/2018 1355

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0165 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1545

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0077	U	0.0013	0.0077
4,4'-DDE		0.0077	U	0.00090	0.0077
4,4'-DDT		0.021		0.0014	0.0077
Aldrin		0.0077	U	0.0012	0.0077
alpha-BHC		0.0023	U	0.00078	0.0023
beta-BHC		0.0023	U	0.00086	0.0023
Chlordane (technical)		0.077	U	0.019	0.077
delta-BHC		0.0023	U	0.00047	0.0023
Dieldrin		0.0023	U	0.0010	0.0023
Endosulfan I		0.0077	U	0.0012	0.0077
Endosulfan II		0.0077	U	0.0020	0.0077
Endosulfan sulfate		0.0077	U	0.00096	0.0077
Endrin		0.0077	U	0.0011	0.0077
Endrin aldehyde		0.0077	U	0.0018	0.0077
Endrin ketone		0.0077	U	0.0015	0.0077
gamma-BHC (Lindane)		0.0023	U	0.00071	0.0023
Heptachlor		0.0077	U	0.00090	0.0077
Heptachlor epoxide		0.0077	U	0.0011	0.0077
Methoxychlor		0.0077	U	0.0018	0.0077
Toxaphene		0.077	U	0.028	0.077

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	88		69 - 150
Tetrachloro-m-xylene	86		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-023 (18"-24")**

Lab Sample ID: 460-156630-17

Date Sampled: 05/21/2018 1355

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0165 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1545

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	77		69 - 150
Tetrachloro-m-xylene	82		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-024 (0-3")

Lab Sample ID: 460-156630-18

Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 05/21/2018 1415

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0401 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1558

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0072	U	0.0012	0.0072
4,4'-DDE		0.0072	U	0.00085	0.0072
4,4'-DDT		0.0072	U	0.0013	0.0072
Aldrin		0.0072	U	0.0011	0.0072
alpha-BHC		0.0021	U	0.00073	0.0021
beta-BHC		0.0021	U	0.00080	0.0021
Chlordane (technical)		0.072	U	0.017	0.072
delta-BHC		0.0021	U	0.00044	0.0021
Dieldrin		0.0021	U	0.00093	0.0021
Endosulfan I		0.0072	U	0.0011	0.0072
Endosulfan II		0.0072	U	0.0018	0.0072
Endosulfan sulfate		0.0072	U	0.00090	0.0072
Endrin		0.0072	U	0.0010	0.0072
Endrin aldehyde		0.0072	U	0.0017	0.0072
Endrin ketone		0.0072	U	0.0014	0.0072
gamma-BHC (Lindane)		0.0021	U	0.00066	0.0021
Heptachlor		0.0072	U	0.00085	0.0072
Heptachlor epoxide		0.0072	U	0.0011	0.0072
Methoxychlor		0.0072	U	0.0016	0.0072
Toxaphene		0.072	U	0.026	0.072

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	91		69 - 150
Tetrachloro-m-xylene	90		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-024 (0-3")**

Lab Sample ID: 460-156630-18

Date Sampled: 05/21/2018 1415

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522119

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0401 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1558

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	79		69 - 150
Tetrachloro-m-xylene	83		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: DUP-002

Lab Sample ID: 460-156630-19

Client Matrix: Solid

% Moisture: 17.9

Date Sampled: 05/21/2018 0000

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522463

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0283 g

Dilution: 50

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0952

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.41	U	0.069	0.41
4,4'-DDE		0.41	U	0.048	0.41
4,4'-DDT		0.41	U	0.075	0.41
Aldrin		0.41	U	0.061	0.41
alpha-BHC		0.12	U	0.041	0.12
beta-BHC		0.16		0.046	0.12
Chlordane (technical)		42		0.98	4.1
delta-BHC		0.12	U	0.025	0.12
Dieldrin		0.12	U	0.053	0.12
Endosulfan I		0.41	U	0.062	0.41
Endosulfan II		0.41	U	0.10	0.41
Endosulfan sulfate		0.41	U	0.051	0.41
Endrin		0.41	U	0.058	0.41
Endrin aldehyde		0.41	U	0.096	0.41
Endrin ketone		0.41	U	0.079	0.41
gamma-BHC (Lindane)		0.12	U	0.038	0.12
Heptachlor		0.41	U	0.048	0.41
Heptachlor epoxide		1.2		0.061	0.41
Methoxychlor		0.41	U	0.093	0.41
Toxaphene		4.1	U	1.5	4.1

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	0	X	69 - 150
Tetrachloro-m-xylene	0	X	74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: DUP-002**

Lab Sample ID: 460-156630-19

Date Sampled: 05/21/2018 0000

Client Matrix: Solid

% Moisture: 17.9

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522463

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-521834

Initial Weight/Volume: 15.0283 g

Dilution: 50

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0952

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/23/2018 1318

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	0	X	69 - 150
Tetrachloro-m-xylene	0	X	74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: EB-002

Lab Sample ID: 460-156630-20

Client Matrix: Water

Date Sampled: 05/21/2018 1430

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-522466	Instrument ID:	CPESTGC4
Prep Method:	3510C	Prep Batch:	460-521701	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/25/2018 1000			Injection Volume:	1 uL
Prep Date:	05/23/2018 0711			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	72		10 - 150
Tetrachloro-m-xylene	68		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: EB-002**

Lab Sample ID: 460-156630-20

Date Sampled: 05/21/2018 1430

Client Matrix: Water

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-522466

Instrument ID: CPESTGC4

Prep Method: 3510C

Prep Batch: 460-521701

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 1 mL

Analysis Date: 05/25/2018 1000

Injection Volume: 1 uL

Prep Date: 05/23/2018 0711

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	52		10 - 150
Tetrachloro-m-xylene	63		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-011 (0-3")

Lab Sample ID: 460-156630-1

Client Matrix: Solid

% Moisture: 8.3

Date Sampled: 05/21/2018 0850

Date Received: 05/21/2018 2000

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0125 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1239

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.073	U	0.0097	0.073
Aroclor 1221		0.073	U	0.0097	0.073
Aroclor 1232		0.073	U	0.0097	0.073
Aroclor 1242		0.073	U	0.0097	0.073
Aroclor 1248		0.073	U	0.0097	0.073
Aroclor 1254		0.073	U	0.010	0.073
Aroclor 1260		0.073	U	0.010	0.073
Aroclor-1262		0.073	U	0.010	0.073
Aroclor 1268		0.073	U	0.010	0.073
Polychlorinated biphenyls, Total		0.073	U	0.010	0.073

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	92		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID:** SS-011 (0-3")

Lab Sample ID: 460-156630-1

Date Sampled: 05/21/2018 0850

Client Matrix: Solid

% Moisture: 8.3

Date Received: 05/21/2018 2000

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0125 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1239

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	82		53 - 150

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-011 (18"-24")

Lab Sample ID: 460-156630-2

Date Sampled: 05/21/2018 0905

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0241 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1415

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.072	U	0.0095	0.072
Aroclor 1221		0.072	U	0.0095	0.072
Aroclor 1232		0.072	U	0.0095	0.072
Aroclor 1242		0.072	U	0.0095	0.072
Aroclor 1248		0.072	U	0.0095	0.072
Aroclor 1254		0.072	U	0.0099	0.072
Aroclor 1260		0.072	U	0.0099	0.072
Aroclor-1262		0.072	U	0.0099	0.072
Aroclor 1268		0.072	U	0.0099	0.072
Polychlorinated biphenyls, Total		0.072	U	0.0099	0.072

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	95		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-011 (18"-24")**

Lab Sample ID: 460-156630-2

Date Sampled: 05/21/2018 0905

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0241 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1415

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	93		53 - 150

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-019 (0-3")

Lab Sample ID: 460-156630-11

Date Sampled: 05/21/2018 1125

Client Matrix: Solid

% Moisture: 17.1

Date Received: 05/21/2018 2000

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0119 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1854

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.081	U	0.011	0.081
Aroclor 1221		0.081	U	0.011	0.081
Aroclor 1232		0.081	U	0.011	0.081
Aroclor 1242		0.081	U	0.011	0.081
Aroclor 1248		0.081	U	0.011	0.081
Aroclor 1254		0.081	U	0.011	0.081
Aroclor 1260		0.081	U	0.011	0.081
Aroclor-1262		0.081	U	0.011	0.081
Aroclor 1268		0.081	U	0.011	0.081
Polychlorinated biphenyls, Total		0.081	U	0.011	0.081

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	119	p	53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-019 (0-3")**

Lab Sample ID: 460-156630-11

Date Sampled: 05/21/2018 1125

Client Matrix: Solid

% Moisture: 17.1

Date Received: 05/21/2018 2000

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0119 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1854

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	209	X	53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-021 (0-3")

Lab Sample ID: 460-156630-13

Date Sampled: 05/21/2018 1320

Client Matrix: Solid

% Moisture: 12.7

Date Received: 05/21/2018 2000

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0369 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1431

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.077	U	0.010	0.077
Aroclor 1221		0.077	U	0.010	0.077
Aroclor 1232		0.077	U	0.010	0.077
Aroclor 1242		0.077	U	0.010	0.077
Aroclor 1248		0.077	U	0.010	0.077
Aroclor 1254		0.077	U	0.011	0.077
Aroclor 1260		0.077	U	0.011	0.077
Aroclor-1262		0.077	U	0.011	0.077
Aroclor 1268		0.077	U	0.011	0.077
Polychlorinated biphenyls, Total		0.077	U	0.011	0.077

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	137		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-021 (0-3")**

Lab Sample ID: 460-156630-13

Date Sampled: 05/21/2018 1320

Client Matrix: Solid

% Moisture: 12.7

Date Received: 05/21/2018 2000

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0369 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1431

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	135		53 - 150

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-022 (0-3")

Lab Sample ID: 460-156630-15

Date Sampled: 05/21/2018 1340

Client Matrix: Solid

% Moisture: 16.2

Date Received: 05/21/2018 2000

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0258 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1446

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.080	U	0.011	0.080
Aroclor 1221		0.080	U	0.011	0.080
Aroclor 1232		0.080	U	0.011	0.080
Aroclor 1242		0.080	U	0.011	0.080
Aroclor 1248		0.080	U	0.011	0.080
Aroclor 1254		0.080	U	0.011	0.080
Aroclor 1260		0.080	U	0.011	0.080
Aroclor-1262		0.080	U	0.011	0.080
Aroclor 1268		0.080	U	0.011	0.080
Polychlorinated biphenyls, Total		0.080	U	0.011	0.080

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	113		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-022 (0-3")**

Lab Sample ID: 460-156630-15

Date Sampled: 05/21/2018 1340

Client Matrix: Solid

% Moisture: 16.2

Date Received: 05/21/2018 2000

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0258 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1446

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	106		53 - 150

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-023 (18"-24")

Lab Sample ID: 460-156630-17

Date Sampled: 05/21/2018 1355

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/21/2018 2000

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0172 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1502

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.077	U	0.010	0.077
Aroclor 1221		0.077	U	0.010	0.077
Aroclor 1232		0.077	U	0.010	0.077
Aroclor 1242		0.077	U	0.010	0.077
Aroclor 1248		0.077	U	0.010	0.077
Aroclor 1254		0.077	U	0.011	0.077
Aroclor 1260		0.077	U	0.011	0.077
Aroclor-1262		0.077	U	0.011	0.077
Aroclor 1268		0.077	U	0.011	0.077
Polychlorinated biphenyls, Total		0.077	U	0.011	0.077

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	101		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-023 (18"-24")**

Lab Sample ID: 460-156630-17

Date Sampled: 05/21/2018 1355

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/21/2018 2000

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0172 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1502

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	95		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-024 (0-3")

Lab Sample ID: 460-156630-18

Date Sampled: 05/21/2018 1415

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0224 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1518

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.072	U	0.0095	0.072
Aroclor 1221		0.072	U	0.0095	0.072
Aroclor 1232		0.072	U	0.0095	0.072
Aroclor 1242		0.072	U	0.0095	0.072
Aroclor 1248		0.072	U	0.0095	0.072
Aroclor 1254		0.072	U	0.0099	0.072
Aroclor 1260		0.072	U	0.0099	0.072
Aroclor-1262		0.072	U	0.0099	0.072
Aroclor 1268		0.072	U	0.0099	0.072
Polychlorinated biphenyls, Total		0.072	U	0.0099	0.072

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	99		53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-024 (0-3")**

Lab Sample ID: 460-156630-18

Date Sampled: 05/21/2018 1415

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0224 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1518

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	83		53 - 150

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: DUP-002

Lab Sample ID: 460-156630-19

Date Sampled: 05/21/2018 0000

Client Matrix: Solid

% Moisture: 17.9

Date Received: 05/21/2018 2000

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0105 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1534

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aroclor 1016		0.082	U	0.011	0.082
Aroclor 1221		0.082	U	0.011	0.082
Aroclor 1232		0.082	U	0.011	0.082
Aroclor 1242		0.082	U	0.011	0.082
Aroclor 1248		0.082	U	0.011	0.082
Aroclor 1254		0.082	U	0.011	0.082
Aroclor 1260		0.082	U	0.011	0.082
Aroclor-1262		0.082	U	0.011	0.082
Aroclor 1268		0.082	U	0.011	0.082
Polychlorinated biphenyls, Total		0.082	U	0.011	0.082

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	190	X	53 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: DUP-002**

Lab Sample ID: 460-156630-19

Date Sampled: 05/21/2018 0000

Client Matrix: Solid

% Moisture: 17.9

Date Received: 05/21/2018 2000

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522088

Instrument ID: CPESTGC11

Prep Method: 3546

Prep Batch: 460-521832

Initial Weight/Volume: 15.0105 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/24/2018 1534

Injection Volume: 1 uL

Prep Date: 05/23/2018 1314

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	131		53 - 150

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: EB-002

Lab Sample ID: 460-156630-20

Client Matrix: Water

Date Sampled: 05/21/2018 1430

Date Received: 05/21/2018 2000

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	460-522090	Instrument ID:	CPESTGC7
Prep Method:	3510C	Prep Batch:	460-521703	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/24/2018 1704			Injection Volume:	1 uL
Prep Date:	05/23/2018 0716			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aroclor 1016	0.40	U	0.10	0.40
Aroclor 1221	0.40	U	0.10	0.40
Aroclor 1232	0.40	U	0.10	0.40
Aroclor 1242	0.40	U	0.10	0.40
Aroclor 1248	0.40	U	0.10	0.40
Aroclor 1254	0.40	U	0.099	0.40
Aroclor 1260	0.40	U	0.099	0.40
Aroclor-1262	0.40	U	0.099	0.40
Aroclor 1268	0.40	U	0.099	0.40
Polychlorinated biphenyls, Total	0.40	U	0.10	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	34	p	10 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: EB-002**

Lab Sample ID: 460-156630-20

Date Sampled: 05/21/2018 1430

Client Matrix: Water

Date Received: 05/21/2018 2000

---

### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 460-522090

Instrument ID: CPESTGC7

Prep Method: 3510C

Prep Batch: 460-521703

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 1 mL

Analysis Date: 05/24/2018 1704

Injection Volume: 1 uL

Prep Date: 05/23/2018 0716

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	67		10 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-011 (0-3")

Lab Sample ID: 460-156630-1

Client Matrix: Solid

% Moisture: 8.3

Date Sampled: 05/21/2018 0850

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0492 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0825

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.036	U	0.0077	0.036
2,4-D		0.036	U	0.013	0.036
Silvex (2,4,5-TP)		0.036	U	0.0038	0.036

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	148		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-011 (0-3")**

Lab Sample ID: 460-156630-1

Date Sampled: 05/21/2018 0850

Client Matrix: Solid

% Moisture: 8.3

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0492 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0825

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	110		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-011 (18"-24")

Lab Sample ID: 460-156630-2

Date Sampled: 05/21/2018 0905

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0484 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0839

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.036	U	0.0076	0.036
2,4-D		0.036	U	0.013	0.036
Silvex (2,4,5-TP)		0.036	U	0.0037	0.036
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		103		80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-011 (18"-24")**

Lab Sample ID: 460-156630-2

Date Sampled: 05/21/2018 0905

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0484 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0839

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	100		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-012 (0-3")

Lab Sample ID: 460-156630-3

Client Matrix: Solid

% Moisture: 38.4

Date Sampled: 05/21/2018 0920

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0296 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0854

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.054	U	0.011	0.054
2,4-D		0.054	U	0.020	0.054
Silvex (2,4,5-TP)		0.054	U	0.0056	0.054

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	126		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-012 (0-3")**

Lab Sample ID: 460-156630-3

Date Sampled: 05/21/2018 0920

Client Matrix: Solid

% Moisture: 38.4

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0296 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0854

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	104		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-013 (0-3")

Lab Sample ID: 460-156630-4

Client Matrix: Solid

% Moisture: 31.5

Date Sampled: 05/21/2018 0935

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0278 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0909

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.049	U	0.010	0.049
2,4-D		0.049	U	0.018	0.049
Silvex (2,4,5-TP)		0.049	U	0.0051	0.049

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	119		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-013 (0-3")**

Lab Sample ID: 460-156630-4

Date Sampled: 05/21/2018 0935

Client Matrix: Solid

% Moisture: 31.5

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0278 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0909

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	107		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-014 (0-3")

Lab Sample ID: 460-156630-5

Client Matrix: Solid

% Moisture: 18.9

Date Sampled: 05/21/2018 0950

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0409 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0923

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.041	U	0.0087	0.041
2,4-D		0.041	U	0.015	0.041
Silvex (2,4,5-TP)		0.041	U	0.0043	0.041

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	113		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-014 (0-3")**

Lab Sample ID: 460-156630-5

Date Sampled: 05/21/2018 0950

Client Matrix: Solid

% Moisture: 18.9

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0409 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0923

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	105		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-015 (0-3")

Lab Sample ID: 460-156630-6

Client Matrix: Solid

% Moisture: 13.8

Date Sampled: 05/21/2018 1015

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0314 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0938

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.039	U	0.0082	0.039
2,4-D		0.039	U	0.014	0.039
Silvex (2,4,5-TP)		0.039	U	0.0040	0.039

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	150		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-015 (0-3")**

Lab Sample ID: 460-156630-6

Date Sampled: 05/21/2018 1015

Client Matrix: Solid

% Moisture: 13.8

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0314 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0938

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	104		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-016 (0-3")**

Lab Sample ID: 460-156630-7

Date Sampled: 05/21/2018 1030

Client Matrix: Solid

% Moisture: 30.8

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0358 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0953

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.048	U	0.010	0.048
2,4-D		0.048	U	0.017	0.048
Silvex (2,4,5-TP)		0.048	U	0.0050	0.048

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	116		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-016 (0-3")**

Lab Sample ID: 460-156630-7

Date Sampled: 05/21/2018 1030

Client Matrix: Solid

% Moisture: 30.8

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0358 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 0953

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	114		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-017 (0-3")

Lab Sample ID: 460-156630-8

Client Matrix: Solid

% Moisture: 27.5

Date Sampled: 05/21/2018 1045

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0462 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1007

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.046	U	0.0097	0.046
2,4-D		0.046	U	0.017	0.046
Silvex (2,4,5-TP)		0.046	U	0.0048	0.046

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	126		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-017 (0-3")**

Lab Sample ID: 460-156630-8

Date Sampled: 05/21/2018 1045

Client Matrix: Solid

% Moisture: 27.5

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0462 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1007

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	124		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-017 (18"-24")

Lab Sample ID: 460-156630-9

Date Sampled: 05/21/2018 1050

Client Matrix: Solid

% Moisture: 17.7

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0473 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1022

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0086	0.040
2,4-D		0.040	U	0.015	0.040
Silvex (2,4,5-TP)		0.040	U	0.0042	0.040
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		125		80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-017 (18"-24")**

Lab Sample ID: 460-156630-9

Date Sampled: 05/21/2018 1050

Client Matrix: Solid

% Moisture: 17.7

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0473 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1022

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	115		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-018 (0-3")

Lab Sample ID: 460-156630-10

Client Matrix: Solid

% Moisture: 15.5

Date Sampled: 05/21/2018 1105

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0369 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1037

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.039	U	0.0084	0.039
2,4-D		0.039	U	0.014	0.039
Silvex (2,4,5-TP)		0.039	U	0.0041	0.039

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	170	X	80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-018 (0-3")**

Lab Sample ID: 460-156630-10

Date Sampled: 05/21/2018 1105

Client Matrix: Solid

% Moisture: 15.5

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0369 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1037

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	128		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-019 (0-3")

Lab Sample ID: 460-156630-11

Client Matrix: Solid

% Moisture: 17.1

Date Sampled: 05/21/2018 1125

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0258 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1204

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0085	0.040
2,4-D		0.040	U	0.015	0.040
Silvex (2,4,5-TP)		0.040	U	0.0042	0.040

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	141		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-019 (0-3")**

Lab Sample ID: 460-156630-11

Date Sampled: 05/21/2018 1125

Client Matrix: Solid

% Moisture: 17.1

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0258 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1204

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	132		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-020 (0-3")

Lab Sample ID: 460-156630-12

Client Matrix: Solid

% Moisture: 18.6

Date Sampled: 05/21/2018 1245

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0340 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1219

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.041	U	0.0087	0.041
2,4-D		0.041	U	0.015	0.041
Silvex (2,4,5-TP)		0.041	U	0.0043	0.041
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		126	p	80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-020 (0-3")**

Lab Sample ID: 460-156630-12

Date Sampled: 05/21/2018 1245

Client Matrix: Solid

% Moisture: 18.6

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0340 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1219

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	261	X	80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-021 (0-3")

Lab Sample ID: 460-156630-13

Client Matrix: Solid

% Moisture: 12.7

Date Sampled: 05/21/2018 1320

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0303 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1234

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.038	U	0.0081	0.038
2,4-D		0.038	U	0.014	0.038
Silvex (2,4,5-TP)		0.038	U	0.0040	0.038

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	139		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-021 (0-3")**

Lab Sample ID: 460-156630-13

Date Sampled: 05/21/2018 1320

Client Matrix: Solid

% Moisture: 12.7

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0303 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1234

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	128		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-021 (18"-24")

Lab Sample ID: 460-156630-14

Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 05/21/2018 1325

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0425 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1248

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0084	0.040
2,4-D		0.040	U	0.014	0.040
Silvex (2,4,5-TP)		0.040	U	0.0041	0.040

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	116		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-021 (18"-24")**

Lab Sample ID: 460-156630-14

Date Sampled: 05/21/2018 1325

Client Matrix: Solid

% Moisture: 15.9

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0425 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1248

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	97		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-022 (0-3")

Lab Sample ID: 460-156630-15

Client Matrix: Solid

% Moisture: 16.2

Date Sampled: 05/21/2018 1340

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0470 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1303

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0084	0.040
2,4-D		0.040	U	0.014	0.040
Silvex (2,4,5-TP)		0.040	U	0.0041	0.040

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	87	p	80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-022 (0-3")**

Lab Sample ID: 460-156630-15

Date Sampled: 05/21/2018 1340

Client Matrix: Solid

% Moisture: 16.2

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0470 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1303

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	164	X	80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-023 (0-3")

Lab Sample ID: 460-156630-16

Date Sampled: 05/21/2018 1350

Client Matrix: Solid

% Moisture: 19.1

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0395 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1318

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.041	U	0.0087	0.041
2,4-D		0.041	U	0.015	0.041
Silvex (2,4,5-TP)		0.041	U	0.0043	0.041

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	134		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-023 (0-3")**

Lab Sample ID: 460-156630-16

Date Sampled: 05/21/2018 1350

Client Matrix: Solid

% Moisture: 19.1

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0395 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1318

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	131		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-023 (18"-24")

Lab Sample ID: 460-156630-17

Client Matrix: Solid

% Moisture: 12.8

Date Sampled: 05/21/2018 1355

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0266 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1332

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.038	U	0.0081	0.038
2,4-D		0.038	U	0.014	0.038
Silvex (2,4,5-TP)		0.038	U	0.0040	0.038

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	134		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-023 (18"-24")**

Lab Sample ID: 460-156630-17

Date Sampled: 05/21/2018 1355

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0266 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1332

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	127		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: SS-024 (0-3")

Lab Sample ID: 460-156630-18

Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 05/21/2018 1415

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0417 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1347

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.036	U	0.0076	0.036
2,4-D		0.036	U	0.013	0.036
Silvex (2,4,5-TP)		0.036	U	0.0037	0.036

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	140		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-024 (0-3")**

Lab Sample ID: 460-156630-18

Date Sampled: 05/21/2018 1415

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0417 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1347

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	133		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: DUP-002**

Lab Sample ID: 460-156630-19

Date Sampled: 05/21/2018 0000

Client Matrix: Solid

% Moisture: 17.9

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0484 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1402

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0086	0.040
2,4-D		0.040	U	0.015	0.040
Silvex (2,4,5-TP)		0.040	U	0.0042	0.040

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	103		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: DUP-002**

Lab Sample ID: 460-156630-19

Date Sampled: 05/21/2018 0000

Client Matrix: Solid

% Moisture: 17.9

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522453

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522027

Initial Weight/Volume: 30.0484 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 1402

Injection Volume: 1 uL

Prep Date: 05/24/2018 0430

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	94		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

Client Sample ID: EB-002

Lab Sample ID: 460-156630-20

Client Matrix: Water

Date Sampled: 05/21/2018 1430

Date Received: 05/21/2018 2000

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522473

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522026

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 0828

Injection Volume: 1 uL

Prep Date: 05/24/2018 0417

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	102		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: EB-002**

Lab Sample ID: 460-156630-20

Date Sampled: 05/21/2018 1430

Client Matrix: Water

Date Received: 05/21/2018 2000

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522473

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522026

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 0828

Injection Volume: 1 uL

Prep Date: 05/24/2018 0417

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	101		54 - 150



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-011 (0-3")**

Lab Sample ID: 460-156630-1

Date Sampled: 05/21/2018 0850

Client Matrix: Solid

% Moisture: 8.3

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/27/2018 1453

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 0836

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4210		8.9	43.2
Antimony		4.3	U	0.52	4.3
Arsenic		2.1	J	0.80	3.2
Barium		27.2	J	3.5	43.2
Beryllium		0.22	J	0.050	0.43
Cadmium		0.86	U	0.13	0.86
Calcium		15900		110	1080
Chromium		9.4		0.60	2.2
Cobalt		2.1	J	1.2	10.8
Copper		11.9		1.2	5.4
Iron		6540		5.8	32.4
Lead		38.4		0.65	2.2
Magnesium		2990		83.2	1080
Manganese		89.4		0.33	3.2
Nickel		6.7	J	0.82	8.6
Potassium		348	J	57.4	1080
Selenium		4.3	U	1.3	4.3
Silver		2.2	U	0.33	2.2
Sodium		1080	U	83.1	1080
Thallium		4.3	U	1.3	4.3
Vanadium		12.9		1.3	10.8
Zinc		44.6		0.56	6.5

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.64 g

Analysis Date: 05/25/2018 0902

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.28		0.010	0.017



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-011 (18"-24")**

Lab Sample ID: 460-156630-2

Date Sampled: 05/21/2018 0905

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.00 g

Analysis Date: 05/27/2018 1445

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 0836

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3580		8.8	42.9
Antimony		4.3	U	0.52	4.3
Arsenic		2.4	J	0.79	3.2
Barium		26.0	J	3.5	42.9
Beryllium		0.22	J	0.049	0.43
Cadmium		0.86	U	0.13	0.86
Calcium		7780	F1	109	1070
Chromium		7.0		0.60	2.1
Cobalt		2.0	J	1.2	10.7
Copper		9.0		1.2	5.4
Iron		5860		5.8	32.2
Lead		27.6		0.65	2.1
Magnesium		1250		82.7	1070
Manganese		135	F1	0.33	3.2
Nickel		4.7	J	0.81	8.6
Potassium		269	J	57.1	1070
Selenium		4.3	U	1.3	4.3
Silver		2.1	U	0.33	2.1
Sodium		1070	U	82.6	1070
Thallium		4.3	U	1.3	4.3
Vanadium		10.4	J	1.3	10.7
Zinc		31.7		0.55	6.4

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 05/25/2018 0904

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.12		0.011	0.018



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-012 (0-3")**

Lab Sample ID: 460-156630-3

Date Sampled: 05/21/2018 0920

Client Matrix: Solid

% Moisture: 38.4

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/27/2018 1457

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 0836

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7290		13.2	64.3
Antimony		6.4	U	0.77	6.4
Arsenic		3.6	J	1.2	4.8
Barium		18.1	J	5.2	64.3
Beryllium		0.23	J	0.074	0.64
Cadmium		0.50	J	0.19	1.3
Calcium		1770		164	1610
Chromium		38.8		0.89	3.2
Cobalt		16.1	U	1.8	16.1
Copper		6.3	J	1.8	8.0
Iron		7500		8.7	48.2
Lead		29.3		0.97	3.2
Magnesium		700	J	124	1610
Manganese		89.0		0.50	4.8
Nickel		3.8	J	1.2	12.9
Potassium		197	J	85.5	1610
Selenium		6.4	U	1.9	6.4
Silver		3.2	U	0.49	3.2
Sodium		1610	U	124	1610
Thallium		6.4	U	1.9	6.4
Vanadium		17.3		1.9	16.1
Zinc		33.7		0.83	9.6

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 10

Initial Weight/Volume: 0.63 g

Analysis Date: 05/25/2018 1239

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		6.4		0.15	0.26



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID:** SS-013 (0-3")

Lab Sample ID: 460-156630-4

Client Matrix: Solid

% Moisture: 31.5

Date Sampled: 05/21/2018 0935

Date Received: 05/21/2018 2000

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/27/2018 1501

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 0836

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8390		11.6	56.7
Antimony		5.7	U	0.68	5.7
Arsenic		2.3	J	1.0	4.3
Barium		13.1	J	4.6	56.7
Beryllium		0.25	J	0.065	0.57
Cadmium		1.1	U	0.17	1.1
Calcium		192	J	145	1420
Chromium		9.2		0.79	2.8
Cobalt		14.2	U	1.6	14.2
Copper		3.5	J	1.6	7.1
Iron		8510		7.7	42.5
Lead		11.7		0.86	2.8
Magnesium		688	J	109	1420
Manganese		36.6		0.44	4.3
Nickel		4.2	J	1.1	11.3
Potassium		211	J	75.5	1420
Selenium		5.7	U	1.7	5.7
Silver		2.8	U	0.43	2.8
Sodium		1420	U	109	1420
Thallium		5.7	U	1.7	5.7
Vanadium		17.3		1.7	14.2
Zinc		13.5		0.73	8.5

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.62 g

Analysis Date: 05/25/2018 0914

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.050		0.014	0.024



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-014 (0-3")**

Lab Sample ID: 460-156630-5

Date Sampled: 05/21/2018 0950

Client Matrix: Solid

% Moisture: 18.9

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/27/2018 1517

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 0836

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4660		9.8	47.9
Antimony		4.8	U	0.57	4.8
Arsenic		2.4	J	0.89	3.6
Barium		16.6	J	3.9	47.9
Beryllium		0.17	J	0.055	0.48
Cadmium		0.42	J	0.14	0.96
Calcium		1320		122	1200
Chromium		32.4		0.66	2.4
Cobalt		12.0	U	1.4	12.0
Copper		5.2	J	1.4	6.0
Iron		6110		6.5	35.9
Lead		21.3		0.72	2.4
Magnesium		510	J	92.3	1200
Manganese		856		0.37	3.6
Nickel		4.2	J	0.91	9.6
Potassium		158	J	63.7	1200
Selenium		4.8	U	1.4	4.8
Silver		2.4	U	0.37	2.4
Sodium		1200	U	92.2	1200
Thallium		4.8	U	1.4	4.8
Vanadium		13.8		1.4	12.0
Zinc		30.8		0.62	7.2

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 10

Initial Weight/Volume: 0.66 g

Analysis Date: 05/25/2018 1240

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		5.3		0.11	0.19



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-015 (0-3")**

Lab Sample ID: 460-156630-6

Date Sampled: 05/21/2018 1015

Client Matrix: Solid

% Moisture: 13.8

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/27/2018 1521

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 0836

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1370		9.2	45.1
Antimony		4.5	U	0.54	4.5
Arsenic		1.3	J	0.83	3.4
Barium		14.9	J	3.7	45.1
Beryllium		0.10	J	0.052	0.45
Cadmium		4.6		0.13	0.90
Calcium		2260		115	1130
Chromium		35.1		0.63	2.3
Cobalt		11.3	U	1.3	11.3
Copper		13.5		1.3	5.6
Iron		3670		6.1	33.8
Lead		14.5		0.68	2.3
Magnesium		679	J	86.9	1130
Manganese		301		0.35	3.4
Nickel		2.8	J	0.86	9.0
Potassium		146	J	59.9	1130
Selenium		4.5	U	1.4	4.5
Silver		2.3	U	0.34	2.3
Sodium		1130	U	86.8	1130
Thallium		4.5	U	1.3	4.5
Vanadium		5.7	J	1.3	11.3
Zinc		72.1		0.58	6.8

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 20

Initial Weight/Volume: 0.65 g

Analysis Date: 05/25/2018 1243

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		16.0		0.21	0.36



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-016 (0-3")**

Lab Sample ID: 460-156630-7

Date Sampled: 05/21/2018 1030

Client Matrix: Solid

% Moisture: 30.8

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/27/2018 1524

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7270		11.7	57.2
Antimony		5.7	U	0.69	5.7
Arsenic		3.4	J	1.1	4.3
Barium		17.6	J	4.6	57.2
Beryllium		0.21	J	0.066	0.57
Cadmium		1.1	U	0.17	1.1
Calcium		445	J	146	1430
Chromium		7.9		0.79	2.9
Cobalt		14.3	U	1.6	14.3
Copper		4.8	J	1.6	7.2
Iron		9140		7.7	42.9
Lead		22.3		0.86	2.9
Magnesium		606	J	110	1430
Manganese		57.3		0.44	4.3
Nickel		4.0	J	1.1	11.4
Potassium		209	J	76.1	1430
Selenium		5.7	U	1.7	5.7
Silver		2.9	U	0.44	2.9
Sodium		1430	U	110	1430
Thallium		5.7	U	1.7	5.7
Vanadium		17.4		1.7	14.3
Zinc		18.5		0.74	8.6

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.60 g

Analysis Date: 05/25/2018 1245

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.046		0.014	0.025



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-017 (0-3")**

Lab Sample ID: 460-156630-8

Date Sampled: 05/21/2018 1045

Client Matrix: Solid

% Moisture: 27.5

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/27/2018 1528

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5880		11.0	53.5
Antimony		5.4	U	0.64	5.4
Arsenic		2.8	J	0.99	4.0
Barium		9.5	J	4.3	53.5
Beryllium		0.16	J	0.062	0.54
Cadmium		1.1	U	0.16	1.1
Calcium		441	J	137	1340
Chromium		6.5		0.74	2.7
Cobalt		13.4	U	1.5	13.4
Copper		2.8	J	1.5	6.7
Iron		6920		7.2	40.2
Lead		17.3		0.81	2.7
Magnesium		470	J	103	1340
Manganese		29.2		0.41	4.0
Nickel		2.9	J	1.0	10.7
Potassium		144	J	71.2	1340
Selenium		5.4	U	1.6	5.4
Silver		2.7	U	0.41	2.7
Sodium		1340	U	103	1340
Thallium		5.4	U	1.6	5.4
Vanadium		13.1	J	1.6	13.4
Zinc		12.9		0.69	8.0

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.64 g

Analysis Date: 05/25/2018 0923

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.14		0.013	0.022



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-017 (18"-24")**

Lab Sample ID: 460-156630-9

Date Sampled: 05/21/2018 1050

Client Matrix: Solid

% Moisture: 17.7

Date Received: 05/21/2018 2000

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/27/2018 1532

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6380		9.7	47.2
Antimony		4.7	U	0.57	4.7
Arsenic		1.6	J	0.87	3.5
Barium		9.5	J	3.8	47.2
Beryllium		0.18	J	0.054	0.47
Cadmium		0.94	U	0.14	0.94
Calcium		176	J	120	1180
Chromium		7.0		0.65	2.4
Cobalt		11.8	U	1.3	11.8
Copper		1.7	J	1.3	5.9
Iron		6790		6.4	35.4
Lead		6.0		0.71	2.4
Magnesium		537	J	91.0	1180
Manganese		31.7		0.37	3.5
Nickel		3.3	J	0.90	9.4
Potassium		130	J	62.8	1180
Selenium		4.7	U	1.4	4.7
Silver		2.4	U	0.36	2.4
Sodium		1180	U	90.9	1180
Thallium		4.7	U	1.4	4.7
Vanadium		11.3	J	1.4	11.8
Zinc		8.7		0.61	7.1

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 05/25/2018 0925

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.026		0.012	0.020



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-018 (0-3")**

Lab Sample ID: 460-156630-10

Date Sampled: 05/21/2018 1105

Client Matrix: Solid

% Moisture: 15.5

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/27/2018 1536

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1820		9.4	45.9
Antimony		4.6	U	0.55	4.6
Arsenic		1.5	J	0.85	3.4
Barium		17.1	J	3.7	45.9
Beryllium		0.14	J	0.053	0.46
Cadmium		4.6		0.14	0.92
Calcium		1160		117	1150
Chromium		44.6		0.64	2.3
Cobalt		1.4	J	1.3	11.5
Copper		11.4		1.3	5.7
Iron		4180		6.2	34.5
Lead		18.9		0.69	2.3
Magnesium		521	J	88.6	1150
Manganese		245		0.36	3.4
Nickel		3.5	J	0.87	9.2
Potassium		179	J	61.1	1150
Selenium		4.6	U	1.4	4.6
Silver		2.3	U	0.35	2.3
Sodium		1150	U	88.5	1150
Thallium		4.6	U	1.4	4.6
Vanadium		6.7	J	1.4	11.5
Zinc		60.8		0.59	6.9

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 20

Initial Weight/Volume: 0.60 g

Analysis Date: 05/25/2018 1251

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		15.4		0.24	0.40



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID:** SS-019 (0-3")

Lab Sample ID: 460-156630-11

Client Matrix: Solid

% Moisture: 17.1

Date Sampled: 05/21/2018 1125

Date Received: 05/21/2018 2000

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/27/2018 1540

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2930		9.8	47.8
Antimony		4.8	U	0.57	4.8
Arsenic		8.7		0.88	3.6
Barium		24.5	J	3.9	47.8
Beryllium		0.23	J	0.055	0.48
Cadmium		6.9		0.14	0.96
Calcium		1740		122	1190
Chromium		71.7		0.66	2.4
Cobalt		1.7	J	1.4	11.9
Copper		13.7		1.3	6.0
Iron		5120		6.4	35.8
Lead		74.6		0.72	2.4
Magnesium		674	J	92.1	1190
Manganese		201		0.37	3.6
Nickel		4.4	J	0.91	9.6
Potassium		261	J	63.5	1190
Selenium		4.8	U	1.4	4.8
Silver		2.4	U	0.36	2.4
Sodium		1190	U	91.9	1190
Thallium		4.8	U	1.4	4.8
Vanadium		8.6	J	1.4	11.9
Zinc		75.9		0.62	7.2

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 100

Initial Weight/Volume: 0.63 g

Analysis Date: 05/25/2018 1320

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		44.4		1.1	2.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID:** SS-020 (0-3")

Lab Sample ID: 460-156630-12

Client Matrix: Solid

% Moisture: 18.6

Date Sampled: 05/21/2018 1245

Date Received: 05/21/2018 2000

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.04 g

Analysis Date: 05/27/2018 1544

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9340		9.7	47.3
Antimony		4.7	U	0.57	4.7
Arsenic		3.4	J	0.87	3.5
Barium		22.5	J	3.8	47.3
Beryllium		0.32	J	0.054	0.47
Cadmium		0.95	U	0.14	0.95
Calcium		600	J	121	1180
Chromium		10.6		0.66	2.4
Cobalt		2.6	J	1.3	11.8
Copper		4.9	J	1.3	5.9
Iron		10700		6.4	35.5
Lead		16.8		0.71	2.4
Magnesium		1070	J	91.1	1180
Manganese		75.8		0.37	3.5
Nickel		6.1	J	0.90	9.5
Potassium		232	J	62.9	1180
Selenium		4.7	U	1.4	4.7
Silver		2.4	U	0.36	2.4
Sodium		1180	U	91.0	1180
Thallium		4.7	U	1.4	4.7
Vanadium		18.6		1.4	11.8
Zinc		20.1		0.61	7.1

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 05/25/2018 1322

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.051		0.012	0.021



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-021 (0-3")**

Lab Sample ID: 460-156630-13

Date Sampled: 05/21/2018 1320

Client Matrix: Solid

% Moisture: 12.7

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/27/2018 1548

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1600		9.2	44.9
Antimony		4.5	U	0.54	4.5
Arsenic		2.1	J	0.83	3.4
Barium		14.0	J	3.6	44.9
Beryllium		0.11	J	0.052	0.45
Cadmium		4.1		0.13	0.90
Calcium		1240		115	1120
Chromium		34.0		0.62	2.2
Cobalt		1.4	J	1.3	11.2
Copper		11.0		1.3	5.6
Iron		4000		6.1	33.7
Lead		20.1		0.68	2.2
Magnesium		513	J	86.6	1120
Manganese		188		0.35	3.4
Nickel		4.7	J	0.85	9.0
Potassium		166	J	59.8	1120
Selenium		4.5	U	1.4	4.5
Silver		2.2	U	0.34	2.2
Sodium		1120	U	86.5	1120
Thallium		4.5	U	1.3	4.5
Vanadium		6.5	J	1.3	11.2
Zinc		50.0		0.58	6.7

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 20

Initial Weight/Volume: 0.63 g

Analysis Date: 05/25/2018 1257

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		14.3		0.22	0.37



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-021 (18"-24")**

Lab Sample ID: 460-156630-14

Date Sampled: 05/21/2018 1325

Client Matrix: Solid

% Moisture: 15.9

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/27/2018 1552

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		12400		9.6	46.6
Antimony		4.7	U	0.56	4.7
Arsenic		6.3		0.86	3.5
Barium		26.9	J	3.8	46.6
Beryllium		0.39	J	0.054	0.47
Cadmium		0.93	U	0.14	0.93
Calcium		804	J	119	1170
Chromium		13.6		0.65	2.3
Cobalt		2.4	J	1.3	11.7
Copper		5.5	J	1.3	5.8
Iron		13700		6.3	35.0
Lead		10.8		0.70	2.3
Magnesium		1140	J	89.9	1170
Manganese		69.7		0.36	3.5
Nickel		7.5	J	0.88	9.3
Potassium		362	J	62.0	1170
Selenium		4.7	U	1.4	4.7
Silver		2.3	U	0.36	2.3
Sodium		1170	U	89.7	1170
Thallium		4.7	U	1.4	4.7
Vanadium		22.3		1.4	11.7
Zinc		35.2		0.60	7.0

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 2.0

Initial Weight/Volume: 0.61 g

Analysis Date: 05/25/2018 1259

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.0		0.023	0.040



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-022 (0-3")**

Lab Sample ID: 460-156630-15

Date Sampled: 05/21/2018 1340

Client Matrix: Solid

% Moisture: 16.2

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/27/2018 1607

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5150		9.6	46.8
Antimony		4.7	U	0.56	4.7
Arsenic		3.1	J	0.87	3.5
Barium		22.6	J	3.8	46.8
Beryllium		0.20	J	0.054	0.47
Cadmium		0.48	J	0.14	0.94
Calcium		1780		119	1170
Chromium		42.0		0.65	2.3
Cobalt		6.0	J	1.3	11.7
Copper		6.5		1.3	5.9
Lead		32.2		0.71	2.3
Magnesium		561	J	90.3	1170
Manganese		622		0.36	3.5
Nickel		5.1	J	0.89	9.4
Potassium		135	J	62.3	1170
Selenium		4.7	U	1.4	4.7
Silver		2.3	U	0.36	2.3
Sodium		1170	U	90.1	1170
Thallium		4.7	U	1.4	4.7
Vanadium		13.2		1.4	11.7
Zinc		45.0		0.61	7.0

Analysis Method: 6010C

Analysis Batch: 460-523153

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 523095D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/28/2018 1416

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		7380		6.3	35.1

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 10

Initial Weight/Volume: 0.60 g

Analysis Date: 05/25/2018 1302

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		4.8		0.12	0.20



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-023 (0-3")**

Lab Sample ID: 460-156630-16

Client Matrix: Solid

% Moisture: 19.1

Date Sampled: 05/21/2018 1350

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/27/2018 1611

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5800		9.8	48.0
Antimony		4.8	U	0.58	4.8
Arsenic		8.1		0.89	3.6
Barium		23.0	J	3.9	48.0
Beryllium		0.28	J	0.055	0.48
Cadmium		0.96	U	0.14	0.96
Calcium		1830		122	1200
Chromium		26.8		0.67	2.4
Cobalt		2.6	J	1.4	12.0
Copper		12.0		1.4	6.0
Lead		14.9		0.72	2.4
Magnesium		926	J	92.5	1200
Manganese		244		0.37	3.6
Nickel		5.3	J	0.91	9.6
Potassium		220	J	63.8	1200
Selenium		4.8	U	1.5	4.8
Silver		2.4	U	0.37	2.4
Sodium		1200	U	92.4	1200
Thallium		4.8	U	1.4	4.8
Vanadium		14.1		1.4	12.0
Zinc		39.2		0.62	7.2

Analysis Method: 6010C

Analysis Batch: 460-523153

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 523095D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/28/2018 1420

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		9310		6.5	36.0

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 10

Initial Weight/Volume: 0.62 g

Analysis Date: 05/25/2018 1304

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.3		0.12	0.20



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-023 (18"-24")**

Lab Sample ID: 460-156630-17

Date Sampled: 05/21/2018 1355

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/27/2018 1615

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6420		9.2	45.0
Antimony		4.5	U	0.54	4.5
Arsenic		1.8	J	0.83	3.4
Barium		10.2	J	3.6	45.0
Beryllium		0.16	J	0.052	0.45
Cadmium		0.90	U	0.13	0.90
Calcium		423	J	115	1120
Chromium		7.5		0.62	2.2
Cobalt		11.2	U	1.3	11.2
Copper		3.6	J	1.3	5.6
Lead		8.7		0.68	2.2
Magnesium		539	J	86.7	1120
Manganese		45.9		0.35	3.4
Nickel		4.0	J	0.85	9.0
Potassium		161	J	59.8	1120
Selenium		4.5	U	1.4	4.5
Silver		2.2	U	0.34	2.2
Sodium		1120	U	86.6	1120
Thallium		4.5	U	1.3	4.5
Vanadium		12.0		1.3	11.2
Zinc		22.7		0.58	6.7

Analysis Method: 6010C

Analysis Batch: 460-523153

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 523095D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/28/2018 1424

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		7010		6.1	33.7

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522413

Lab File ID: 522412HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 05/25/2018 1306

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0437

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.13		0.011	0.019



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: SS-024 (0-3")**

Lab Sample ID: 460-156630-18

Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 05/21/2018 1415

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/27/2018 1619

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2540		8.5	41.7
Antimony		4.2	U	0.50	4.2
Arsenic		0.93	J	0.77	3.1
Barium		4.8	J	3.4	41.7
Beryllium		0.095	J	0.048	0.42
Cadmium		0.83	U	0.12	0.83
Calcium		128	J	106	1040
Chromium		3.1		0.58	2.1
Cobalt		4.5	J	1.2	10.4
Copper		3.1	J	1.2	5.2
Lead		3.3		0.63	2.1
Magnesium		236	J	80.3	1040
Manganese		260		0.32	3.1
Nickel		3.4	J	0.79	8.3
Potassium		68.6	J	55.4	1040
Selenium		4.2	U	1.3	4.2
Silver		2.1	U	0.32	2.1
Sodium		1040	U	80.2	1040
Thallium		4.2	U	1.2	4.2
Vanadium		5.3	J	1.2	10.4
Zinc		9.6		0.54	6.2

Analysis Method: 6010C

Analysis Batch: 460-523153

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 523095D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/28/2018 1428

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		3970		5.6	31.2

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522431

Lab File ID: 522412HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 05/25/2018 1017

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0513

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.20		0.010	0.017



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: DUP-002**

Lab Sample ID: 460-156630-19

Date Sampled: 05/21/2018 0000

Client Matrix: Solid

% Moisture: 17.9

Date Received: 05/21/2018 2000

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-522986

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 522940D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/27/2018 1623

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2880		9.9	48.2
Antimony		4.8	U	0.58	4.8
Arsenic		8.7		0.89	3.6
Barium		25.1	J	3.9	48.2
Beryllium		0.19	J	0.055	0.48
Cadmium		6.5		0.14	0.96
Calcium		1760		123	1210
Chromium		65.9		0.67	2.4
Cobalt		2.0	J	1.4	12.1
Copper		13.3		1.4	6.0
Lead		61.7		0.73	2.4
Magnesium		733	J	93.0	1210
Manganese		210		0.37	3.6
Nickel		4.7	J	0.92	9.6
Potassium		219	J	64.2	1210
Selenium		4.8	U	1.5	4.8
Silver		2.4	U	0.37	2.4
Sodium		1210	U	92.9	1210
Thallium		4.8	U	1.4	4.8
Vanadium		8.2	J	1.4	12.1
Zinc		76.2		0.62	7.2

Analysis Method: 6010C

Analysis Batch: 460-523153

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-522941

Lab File ID: 523095D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/28/2018 1431

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 1054

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Iron		4930		6.5	36.2

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-522570

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-522431

Lab File ID: 522412HG1.CSV

Dilution: 100

Initial Weight/Volume: 0.67 g

Analysis Date: 05/25/2018 1324

Final Weight/Volume: 50 mL

Prep Date: 05/25/2018 0513

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		47.1		1.1	1.9



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Client Sample ID: EB-002**

Lab Sample ID: 460-156630-20

Client Matrix: Water

Date Sampled: 05/21/2018 1430

Date Received: 05/21/2018 2000

### 6020A Metals (ICP/MS)

Analysis Method: 6020A

Analysis Batch: 460-523033

Instrument ID: ICPMS2

Prep Method: 3010A

Prep Batch: 460-522939

Lab File ID: 036SMPL.D

Dilution: 2.0

Initial Weight/Volume: 50 mL

Analysis Date: 05/27/2018 1707

Final Weight/Volume: 50 mL

Prep Date: 05/27/2018 0835

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	40.0	U	15.0	40.0
Antimony	2.0	U	0.62	2.0
Arsenic	2.0	U	0.77	2.0
Barium	4.0	U	1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Calcium	200	U	67.6	200
Chromium	4.0	U	1.3	4.0
Cobalt	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Iron	120	U	45.7	120
Lead	1.2	U	0.37	1.2
Magnesium	200	U	65.7	200
Manganese	8.0	U	2.7	8.0
Nickel	4.0	U	1.3	4.0
Potassium	200	U	64.9	200
Selenium	10.0	U	0.69	10.0
Silver	2.0	U	1.4	2.0
Sodium	200	U	75.7	200
Thallium	0.80	U	0.24	0.80
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0

### 7470A Mercury (CVAA)

Analysis Method: 7470A

Analysis Batch: 460-521899

Instrument ID: LEEMAN7

Prep Method: 7470A

Prep Batch: 460-521816

Lab File ID: 521816hg1.CSV

Dilution: 1.0

Initial Weight/Volume: 30 mL

Analysis Date: 05/23/2018 1557

Final Weight/Volume: 30 mL

Prep Date: 05/23/2018 1219

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-011 (0-3")

Lab Sample ID: 460-156630-1

Client Matrix: Solid

Date Sampled: 05/21/2018 0850

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521916	Analysis Date: 05/23/2018	1833				DryWt Corrected: N
Percent Solids	91.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521916	Analysis Date: 05/23/2018	1833				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-011 (18"-24")

Lab Sample ID: 460-156630-2

Client Matrix: Solid

Date Sampled: 05/21/2018 0905

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N
Percent Solids	93.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-012 (0-3")

Lab Sample ID: 460-156630-3

Client Matrix: Solid

Date Sampled: 05/21/2018 0920

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	38.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N
Percent Solids	61.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-013 (0-3")

Lab Sample ID: 460-156630-4

Client Matrix: Solid

Date Sampled: 05/21/2018 0935

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	31.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N
Percent Solids	68.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-014 (0-3")

Lab Sample ID: 460-156630-5

Client Matrix: Solid

Date Sampled: 05/21/2018 0950

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N
Percent Solids	81.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-015 (0-3")

Lab Sample ID: 460-156630-6

Client Matrix: Solid

Date Sampled: 05/21/2018 1015

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N
Percent Solids	86.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-016 (0-3")

Lab Sample ID: 460-156630-7

Client Matrix: Solid

Date Sampled: 05/21/2018 1030

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	30.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N
Percent Solids	69.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-017 (0-3")

Lab Sample ID: 460-156630-8

Client Matrix: Solid

Date Sampled: 05/21/2018 1045

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	27.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N
Percent Solids	72.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521934	Analysis Date: 05/23/2018	1935				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-017 (18"-24")

Lab Sample ID: 460-156630-9

Client Matrix: Solid

Date Sampled: 05/21/2018 1050

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N
Percent Solids	82.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-018 (0-3")

Lab Sample ID: 460-156630-10

Client Matrix: Solid

Date Sampled: 05/21/2018 1105

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N
Percent Solids	84.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-019 (0-3")

Lab Sample ID: 460-156630-11

Client Matrix: Solid

Date Sampled: 05/21/2018 1125

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N
Percent Solids	82.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-020 (0-3")

Lab Sample ID: 460-156630-12

Client Matrix: Solid

Date Sampled: 05/21/2018 1245

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N
Percent Solids	81.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-021 (0-3")

Lab Sample ID: 460-156630-13

Client Matrix: Solid

Date Sampled: 05/21/2018 1320

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N
Percent Solids	87.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-021 (18"-24")

**Lab Sample ID:** 460-156630-14

**Client Matrix:** Solid

**Date Sampled:** 05/21/2018 1325

**Date Received:** 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N
Percent Solids	84.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-022 (0-3")

Lab Sample ID: 460-156630-15

Client Matrix: Solid

Date Sampled: 05/21/2018 1340

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N
Percent Solids	83.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-023 (0-3")

Lab Sample ID: 460-156630-16

Client Matrix: Solid

Date Sampled: 05/21/2018 1350

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N
Percent Solids	80.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-023 (18"-24")

**Lab Sample ID:** 460-156630-17

**Client Matrix:** Solid

**Date Sampled:** 05/21/2018 1355

**Date Received:** 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N
Percent Solids	87.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID:** SS-024 (0-3")

Lab Sample ID: 460-156630-18

Client Matrix: Solid

Date Sampled: 05/21/2018 1415

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N
Percent Solids	93.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-1

---

### General Chemistry

**Client Sample ID: DUP-002**

Lab Sample ID: 460-156630-19

Date Sampled: 05/21/2018 0000

Client Matrix: Solid

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N
Percent Solids	82.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-521897	Analysis Date: 05/23/2018	1700				DryWt Corrected: N



## DATA REPORTING QUALIFIERS

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	*	ISTD response or retention time outside acceptable limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD is outside acceptance limits.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD is outside acceptance limits.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.



## DATA REPORTING QUALIFIERS

Client: PW Grosser Consulting

Job Number: 460-156630-1

Lab Section	Qualifier	Description
Metals		
	F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
	F3	Duplicate RPD exceeds the control limit
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



# QUALITY CONTROL RESULTS



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Prep Batch: 460-521757</b>					
460-156630-1	SS-011 (0-3")	T	Solid	5035	
460-156630-2	SS-011 (18"-24")	T	Solid	5035	
460-156630-11	SS-019 (0-3")	T	Solid	5035	
460-156630-13	SS-021 (0-3")	T	Solid	5035	
460-156630-15	SS-022 (0-3")	T	Solid	5035	
460-156630-17	SS-023 (18"-24")	T	Solid	5035	
460-156630-18	SS-024 (0-3")	T	Solid	5035	
460-156630-19	DUP-002	T	Solid	5035	
<b>Analysis Batch:460-522339</b>					
LCS 460-522339/3	Lab Control Sample	T	Water	8260C	
LCSD 460-522339/4	Lab Control Sample Duplicate	T	Water	8260C	
MB 460-522339/6	Method Blank	T	Water	8260C	
460-156630-20	EB-002	T	Water	8260C	
460-156630-21	Trip Blank	T	Water	8260C	
<b>Analysis Batch:460-522864</b>					
LCS 460-522864/3	Lab Control Sample	T	Solid	8260C	
LCSD 460-522864/4	Lab Control Sample Duplicate	T	Solid	8260C	
MB 460-522864/7	Method Blank	T	Solid	8260C	
460-156630-1	SS-011 (0-3")	T	Solid	8260C	460-521757
460-156630-2	SS-011 (18"-24")	T	Solid	8260C	460-521757
460-156630-11	SS-019 (0-3")	T	Solid	8260C	460-521757
460-156630-13	SS-021 (0-3")	T	Solid	8260C	460-521757
460-156630-15	SS-022 (0-3")	T	Solid	8260C	460-521757
460-156630-17	SS-023 (18"-24")	T	Solid	8260C	460-521757
460-156630-18	SS-024 (0-3")	T	Solid	8260C	460-521757
460-156630-19	DUP-002	T	Solid	8260C	460-521757

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 460-521687</b>					
LCS 460-521687/2-A	Lab Control Sample	T	Water	3510C	
LCS 460-521687/4-A	Lab Control Sample	T	Water	3510C	
LCSD 460-521687/3-A	Lab Control Sample Duplicate	T	Water	3510C	
LCSD 460-521687/5-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 460-521687/1-A	Method Blank	T	Water	3510C	
460-156630-20	EB-002	T	Water	3510C	
<b>Prep Batch: 460-521793</b>					
LCS 460-521793/2-A	Lab Control Sample	T	Solid	3546	
LCS 460-521793/3-A	Lab Control Sample	T	Solid	3546	
MB 460-521793/1-A	Method Blank	T	Solid	3546	
460-156230-A-2-K MS	Matrix Spike	T	Solid	3546	
460-156230-A-2-L MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156630-1	SS-011 (0-3")	T	Solid	3546	
460-156630-2	SS-011 (18"-24")	T	Solid	3546	
460-156630-11	SS-019 (0-3")	T	Solid	3546	
460-156630-13	SS-021 (0-3")	T	Solid	3546	
460-156630-15	SS-022 (0-3")	T	Solid	3546	
460-156630-17	SS-023 (18"-24")	T	Solid	3546	
460-156630-18	SS-024 (0-3")	T	Solid	3546	
460-156630-19	DUP-002	T	Solid	3546	
<b>Analysis Batch:460-521850</b>					
LCS 460-521687/2-A	Lab Control Sample	T	Water	8270D	460-521687
LCS 460-521687/4-A	Lab Control Sample	T	Water	8270D	460-521687
LCSD 460-521687/3-A	Lab Control Sample Duplicate	T	Water	8270D	460-521687
LCSD 460-521687/5-A	Lab Control Sample Duplicate	T	Water	8270D	460-521687
MB 460-521687/1-A	Method Blank	T	Water	8270D	460-521687
460-156630-20	EB-002	T	Water	8270D	460-521687
<b>Analysis Batch:460-522029</b>					
LCS 460-521793/2-A	Lab Control Sample	T	Solid	8270D	460-521793
LCS 460-521793/3-A	Lab Control Sample	T	Solid	8270D	460-521793
MB 460-521793/1-A	Method Blank	T	Solid	8270D	460-521793
460-156230-A-2-K MS	Matrix Spike	T	Solid	8270D	460-521793
460-156230-A-2-L MSD	Matrix Spike Duplicate	T	Solid	8270D	460-521793
460-156630-2	SS-011 (18"-24")	T	Solid	8270D	460-521793
460-156630-11	SS-019 (0-3")	T	Solid	8270D	460-521793
460-156630-13	SS-021 (0-3")	T	Solid	8270D	460-521793
460-156630-15	SS-022 (0-3")	T	Solid	8270D	460-521793
460-156630-17	SS-023 (18"-24")	T	Solid	8270D	460-521793
460-156630-18	SS-024 (0-3")	T	Solid	8270D	460-521793
460-156630-19	DUP-002	T	Solid	8270D	460-521793

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Analysis Batch:460-522419</b>					
460-156630-1	SS-011 (0-3")	T	Solid	8270D	460-521793

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-521701</b>					
LCS 460-521701/2-A	Lab Control Sample	T	Water	3510C	
LCSD 460-521701/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 460-521701/1-A	Method Blank	T	Water	3510C	
460-156630-20	EB-002	T	Water	3510C	
<b>Prep Batch: 460-521703</b>					
LCS 460-521703/2-A	Lab Control Sample	T	Water	3510C	
LCSD 460-521703/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 460-521703/1-A	Method Blank	T	Water	3510C	
460-156630-20	EB-002	T	Water	3510C	
<b>Prep Batch: 460-521832</b>					
LCS 460-521832/2-A	Lab Control Sample	T	Solid	3546	
MB 460-521832/1-A	Method Blank	T	Solid	3546	
460-156630-1	SS-011 (0-3")	T	Solid	3546	
460-156630-1MS	Matrix Spike	T	Solid	3546	
460-156630-1MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156630-2	SS-011 (18"-24")	T	Solid	3546	
460-156630-11	SS-019 (0-3")	T	Solid	3546	
460-156630-13	SS-021 (0-3")	T	Solid	3546	
460-156630-15	SS-022 (0-3")	T	Solid	3546	
460-156630-17	SS-023 (18"-24")	T	Solid	3546	
460-156630-18	SS-024 (0-3")	T	Solid	3546	
460-156630-19	DUP-002	T	Solid	3546	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-521834</b>					
LCS 460-521834/2-A	Lab Control Sample	T	Solid	3546	
MB 460-521834/1-A	Method Blank	T	Solid	3546	
460-156630-1	SS-011 (0-3")	T	Solid	3546	
460-156630-1MS	Matrix Spike	T	Solid	3546	
460-156630-1MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156630-2	SS-011 (18"-24")	T	Solid	3546	
460-156630-3	SS-012 (0-3")	T	Solid	3546	
460-156630-4	SS-013 (0-3")	T	Solid	3546	
460-156630-5	SS-014 (0-3")	T	Solid	3546	
460-156630-6DL	SS-015 (0-3")	T	Solid	3546	
460-156630-7	SS-016 (0-3")	T	Solid	3546	
460-156630-8	SS-017 (0-3")	T	Solid	3546	
460-156630-9	SS-017 (18"-24")	T	Solid	3546	
460-156630-10DL	SS-018 (0-3")	T	Solid	3546	
460-156630-11DL	SS-019 (0-3")	T	Solid	3546	
460-156630-12	SS-020 (0-3")	T	Solid	3546	
460-156630-13DL	SS-021 (0-3")	T	Solid	3546	
460-156630-14	SS-021 (18"-24")	T	Solid	3546	
460-156630-15	SS-022 (0-3")	T	Solid	3546	
460-156630-16	SS-023 (0-3")	T	Solid	3546	
460-156630-17	SS-023 (18"-24")	T	Solid	3546	
460-156630-18	SS-024 (0-3")	T	Solid	3546	
460-156630-19DL	DUP-002	T	Solid	3546	
<b>Prep Batch: 460-522026</b>					
LCS 460-522026/2-A	Lab Control Sample	T	Water	8151A	
LCSD 460-522026/3-A	Lab Control Sample Duplicate	T	Water	8151A	
MB 460-522026/1-A	Method Blank	T	Water	8151A	
460-156630-20	EB-002	T	Water	8151A	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-522027</b>					
LCS 460-522027/2-A	Lab Control Sample	T	Solid	8151A	
MB 460-522027/1-A	Method Blank	T	Solid	8151A	
460-156630-1	SS-011 (0-3")	T	Solid	8151A	
460-156630-1MS	Matrix Spike	T	Solid	8151A	
460-156630-1MSD	Matrix Spike Duplicate	T	Solid	8151A	
460-156630-2	SS-011 (18"-24")	T	Solid	8151A	
460-156630-3	SS-012 (0-3")	T	Solid	8151A	
460-156630-4	SS-013 (0-3")	T	Solid	8151A	
460-156630-5	SS-014 (0-3")	T	Solid	8151A	
460-156630-6	SS-015 (0-3")	T	Solid	8151A	
460-156630-7	SS-016 (0-3")	T	Solid	8151A	
460-156630-8	SS-017 (0-3")	T	Solid	8151A	
460-156630-9	SS-017 (18"-24")	T	Solid	8151A	
460-156630-10	SS-018 (0-3")	T	Solid	8151A	
460-156630-11	SS-019 (0-3")	T	Solid	8151A	
460-156630-12	SS-020 (0-3")	T	Solid	8151A	
460-156630-13	SS-021 (0-3")	T	Solid	8151A	
460-156630-14	SS-021 (18"-24")	T	Solid	8151A	
460-156630-15	SS-022 (0-3")	T	Solid	8151A	
460-156630-16	SS-023 (0-3")	T	Solid	8151A	
460-156630-17	SS-023 (18"-24")	T	Solid	8151A	
460-156630-18	SS-024 (0-3")	T	Solid	8151A	
460-156630-19	DUP-002	T	Solid	8151A	
<b>Analysis Batch:460-522088</b>					
LCS 460-521832/2-A	Lab Control Sample	T	Solid	8082A	460-521832
MB 460-521832/1-A	Method Blank	T	Solid	8082A	460-521832
460-156630-1	SS-011 (0-3")	T	Solid	8082A	460-521832
460-156630-1MS	Matrix Spike	T	Solid	8082A	460-521832
460-156630-1MSD	Matrix Spike Duplicate	T	Solid	8082A	460-521832
460-156630-2	SS-011 (18"-24")	T	Solid	8082A	460-521832
460-156630-11	SS-019 (0-3")	T	Solid	8082A	460-521832
460-156630-13	SS-021 (0-3")	T	Solid	8082A	460-521832
460-156630-15	SS-022 (0-3")	T	Solid	8082A	460-521832
460-156630-17	SS-023 (18"-24")	T	Solid	8082A	460-521832
460-156630-18	SS-024 (0-3")	T	Solid	8082A	460-521832
460-156630-19	DUP-002	T	Solid	8082A	460-521832
<b>Analysis Batch:460-522090</b>					
LCS 460-521703/2-A	Lab Control Sample	T	Water	8082A	460-521703
LCSD 460-521703/3-A	Lab Control Sample Duplicate	T	Water	8082A	460-521703
MB 460-521703/1-A	Method Blank	T	Water	8082A	460-521703
460-156630-20	EB-002	T	Water	8082A	460-521703

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:460-522119</b>					
LCS 460-521834/2-A	Lab Control Sample	T	Solid	8081B	460-521834
MB 460-521834/1-A	Method Blank	T	Solid	8081B	460-521834
460-156630-2	SS-011 (18"-24")	T	Solid	8081B	460-521834
460-156630-3	SS-012 (0-3")	T	Solid	8081B	460-521834
460-156630-4	SS-013 (0-3")	T	Solid	8081B	460-521834
460-156630-5	SS-014 (0-3")	T	Solid	8081B	460-521834
460-156630-7	SS-016 (0-3")	T	Solid	8081B	460-521834
460-156630-8	SS-017 (0-3")	T	Solid	8081B	460-521834
460-156630-9	SS-017 (18"-24")	T	Solid	8081B	460-521834
460-156630-12	SS-020 (0-3")	T	Solid	8081B	460-521834
460-156630-14	SS-021 (18"-24")	T	Solid	8081B	460-521834
460-156630-15	SS-022 (0-3")	T	Solid	8081B	460-521834
460-156630-16	SS-023 (0-3")	T	Solid	8081B	460-521834
460-156630-17	SS-023 (18"-24")	T	Solid	8081B	460-521834
460-156630-18	SS-024 (0-3")	T	Solid	8081B	460-521834
<b>Analysis Batch:460-522453</b>					
LCS 460-522027/2-A	Lab Control Sample	T	Solid	8151A	460-522027
MB 460-522027/1-A	Method Blank	T	Solid	8151A	460-522027
460-156630-1	SS-011 (0-3")	T	Solid	8151A	460-522027
460-156630-1MS	Matrix Spike	T	Solid	8151A	460-522027
460-156630-1MSD	Matrix Spike Duplicate	T	Solid	8151A	460-522027
460-156630-2	SS-011 (18"-24")	T	Solid	8151A	460-522027
460-156630-3	SS-012 (0-3")	T	Solid	8151A	460-522027
460-156630-4	SS-013 (0-3")	T	Solid	8151A	460-522027
460-156630-5	SS-014 (0-3")	T	Solid	8151A	460-522027
460-156630-6	SS-015 (0-3")	T	Solid	8151A	460-522027
460-156630-7	SS-016 (0-3")	T	Solid	8151A	460-522027
460-156630-8	SS-017 (0-3")	T	Solid	8151A	460-522027
460-156630-9	SS-017 (18"-24")	T	Solid	8151A	460-522027
460-156630-10	SS-018 (0-3")	T	Solid	8151A	460-522027
460-156630-11	SS-019 (0-3")	T	Solid	8151A	460-522027
460-156630-12	SS-020 (0-3")	T	Solid	8151A	460-522027
460-156630-13	SS-021 (0-3")	T	Solid	8151A	460-522027
460-156630-14	SS-021 (18"-24")	T	Solid	8151A	460-522027
460-156630-15	SS-022 (0-3")	T	Solid	8151A	460-522027
460-156630-16	SS-023 (0-3")	T	Solid	8151A	460-522027
460-156630-17	SS-023 (18"-24")	T	Solid	8151A	460-522027
460-156630-18	SS-024 (0-3")	T	Solid	8151A	460-522027
460-156630-19	DUP-002	T	Solid	8151A	460-522027

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:460-522463</b>					
460-156630-1	SS-011 (0-3")	T	Solid	8081B	460-521834
460-156630-1MS	Matrix Spike	T	Solid	8081B	460-521834
460-156630-1MSD	Matrix Spike Duplicate	T	Solid	8081B	460-521834
460-156630-6DL	SS-015 (0-3")	T	Solid	8081B	460-521834
460-156630-10DL	SS-018 (0-3")	T	Solid	8081B	460-521834
460-156630-11DL	SS-019 (0-3")	T	Solid	8081B	460-521834
460-156630-13DL	SS-021 (0-3")	T	Solid	8081B	460-521834
460-156630-19DL	DUP-002	T	Solid	8081B	460-521834
<b>Analysis Batch:460-522466</b>					
LCS 460-521701/2-A	Lab Control Sample	T	Water	8081B	460-521701
LCSD 460-521701/3-A	Lab Control Sample Duplicate	T	Water	8081B	460-521701
MB 460-521701/1-A	Method Blank	T	Water	8081B	460-521701
460-156630-20	EB-002	T	Water	8081B	460-521701
<b>Analysis Batch:460-522473</b>					
LCS 460-522026/2-A	Lab Control Sample	T	Water	8151A	460-522026
LCSD 460-522026/3-A	Lab Control Sample Duplicate	T	Water	8151A	460-522026
MB 460-522026/1-A	Method Blank	T	Water	8151A	460-522026
460-156630-20	EB-002	T	Water	8151A	460-522026

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-521816</b>					
LCS 460-521816/2-A	Lab Control Sample	T	Water	7470A	
MB 460-521816/1-A	Method Blank	T	Water	7470A	
460-156616-D-1-B DU	Duplicate	T	Water	7470A	
460-156616-D-1-C MS	Matrix Spike	T	Water	7470A	
460-156630-20	EB-002	T	Water	7470A	
<b>Analysis Batch: 460-521899</b>					
LCS 460-521816/2-A	Lab Control Sample	T	Water	7470A	460-521816
MB 460-521816/1-A	Method Blank	T	Water	7470A	460-521816
460-156616-D-1-B DU	Duplicate	T	Water	7470A	460-521816
460-156616-D-1-C MS	Matrix Spike	T	Water	7470A	460-521816
460-156630-20	EB-002	T	Water	7470A	460-521816
<b>Prep Batch: 460-522413</b>					
LCSSRM 460-522413/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	
MB 460-522413/1-A	Method Blank	T	Solid	7471B	
460-156630-1	SS-011 (0-3")	T	Solid	7471B	
460-156630-2	SS-011 (18"-24")	T	Solid	7471B	
460-156630-3	SS-012 (0-3")	T	Solid	7471B	
460-156630-4	SS-013 (0-3")	T	Solid	7471B	
460-156630-5	SS-014 (0-3")	T	Solid	7471B	
460-156630-6	SS-015 (0-3")	T	Solid	7471B	
460-156630-7	SS-016 (0-3")	T	Solid	7471B	
460-156630-8	SS-017 (0-3")	T	Solid	7471B	
460-156630-9	SS-017 (18"-24")	T	Solid	7471B	
460-156630-10	SS-018 (0-3")	T	Solid	7471B	
460-156630-11	SS-019 (0-3")	T	Solid	7471B	
460-156630-12	SS-020 (0-3")	T	Solid	7471B	
460-156630-13	SS-021 (0-3")	T	Solid	7471B	
460-156630-14	SS-021 (18"-24")	T	Solid	7471B	
460-156630-15	SS-022 (0-3")	T	Solid	7471B	
460-156630-16	SS-023 (0-3")	T	Solid	7471B	
460-156630-17	SS-023 (18"-24")	T	Solid	7471B	
460-156665-A-3-I DU	Duplicate	T	Solid	7471B	
460-156665-A-3-J MS	Matrix Spike	T	Solid	7471B	
<b>Prep Batch: 460-522431</b>					
LCSSRM 460-522431/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	
MB 460-522431/1-A	Method Blank	T	Solid	7471B	
460-156630-18	SS-024 (0-3")	T	Solid	7471B	
460-156630-19	DUP-002	T	Solid	7471B	
460-156665-A-21-I DU	Duplicate	T	Solid	7471B	
460-156665-A-21-J MS	Matrix Spike	T	Solid	7471B	

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch: 460-522570</b>					
LCSSRM 460-522413/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	460-522413
MB 460-522413/1-A	Method Blank	T	Solid	7471B	460-522413
LCSSRM 460-522431/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	460-522431
MB 460-522431/1-A	Method Blank	T	Solid	7471B	460-522431
460-156630-1	SS-011 (0-3")	T	Solid	7471B	460-522413
460-156630-2	SS-011 (18"-24")	T	Solid	7471B	460-522413
460-156630-3	SS-012 (0-3")	T	Solid	7471B	460-522413
460-156630-4	SS-013 (0-3")	T	Solid	7471B	460-522413
460-156630-5	SS-014 (0-3")	T	Solid	7471B	460-522413
460-156630-6	SS-015 (0-3")	T	Solid	7471B	460-522413
460-156630-7	SS-016 (0-3")	T	Solid	7471B	460-522413
460-156630-8	SS-017 (0-3")	T	Solid	7471B	460-522413
460-156630-9	SS-017 (18"-24")	T	Solid	7471B	460-522413
460-156630-10	SS-018 (0-3")	T	Solid	7471B	460-522413
460-156630-11	SS-019 (0-3")	T	Solid	7471B	460-522413
460-156630-12	SS-020 (0-3")	T	Solid	7471B	460-522413
460-156630-13	SS-021 (0-3")	T	Solid	7471B	460-522413
460-156630-14	SS-021 (18"-24")	T	Solid	7471B	460-522413
460-156630-15	SS-022 (0-3")	T	Solid	7471B	460-522413
460-156630-16	SS-023 (0-3")	T	Solid	7471B	460-522413
460-156630-17	SS-023 (18"-24")	T	Solid	7471B	460-522413
460-156630-18	SS-024 (0-3")	T	Solid	7471B	460-522431
460-156630-19	DUP-002	T	Solid	7471B	460-522431
460-156665-A-3-I DU	Duplicate	T	Solid	7471B	460-522413
460-156665-A-3-J MS	Matrix Spike	T	Solid	7471B	460-522413
460-156665-A-21-I DU	Duplicate	T	Solid	7471B	460-522431
460-156665-A-21-J MS	Matrix Spike	T	Solid	7471B	460-522431
<b>Prep Batch: 460-522939</b>					
LCS 460-522939/2-A ^2	Lab Control Sample	T	Water	3010A	
MB 460-522939/1-A ^2	Method Blank	T	Water	3010A	
460-156156-A-2-B DU ^2	Duplicate	T	Water	3010A	
460-156156-E-2-C MS ^2	Matrix Spike	T	Water	3010A	
460-156630-20	EB-002	T	Water	3010A	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-522941</b>					
LCSSRM 460-522941/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-522941/1-A ^2	Method Blank	T	Solid	3050B	
460-156630-1	SS-011 (0-3")	T	Solid	3050B	
460-156630-2	SS-011 (18"-24")	T	Solid	3050B	
460-156630-2DU	Duplicate	T	Solid	3050B	
460-156630-2MS	Matrix Spike	T	Solid	3050B	
460-156630-3	SS-012 (0-3")	T	Solid	3050B	
460-156630-4	SS-013 (0-3")	T	Solid	3050B	
460-156630-5	SS-014 (0-3")	T	Solid	3050B	
460-156630-6	SS-015 (0-3")	T	Solid	3050B	
460-156630-7	SS-016 (0-3")	T	Solid	3050B	
460-156630-8	SS-017 (0-3")	T	Solid	3050B	
460-156630-9	SS-017 (18"-24")	T	Solid	3050B	
460-156630-10	SS-018 (0-3")	T	Solid	3050B	
460-156630-11	SS-019 (0-3")	T	Solid	3050B	
460-156630-12	SS-020 (0-3")	T	Solid	3050B	
460-156630-13	SS-021 (0-3")	T	Solid	3050B	
460-156630-14	SS-021 (18"-24")	T	Solid	3050B	
460-156630-15	SS-022 (0-3")	T	Solid	3050B	
460-156630-16	SS-023 (0-3")	T	Solid	3050B	
460-156630-17	SS-023 (18"-24")	T	Solid	3050B	
460-156630-18	SS-024 (0-3")	T	Solid	3050B	
460-156630-19	DUP-002	T	Solid	3050B	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:460-522986</b>					
LCSSRM 460-522941/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-522941
MB 460-522941/1-A ^2	Method Blank	T	Solid	6010C	460-522941
460-156630-1	SS-011 (0-3")	T	Solid	6010C	460-522941
460-156630-2	SS-011 (18"-24")	T	Solid	6010C	460-522941
460-156630-2DU	Duplicate	T	Solid	6010C	460-522941
460-156630-2MS	Matrix Spike	T	Solid	6010C	460-522941
460-156630-3	SS-012 (0-3")	T	Solid	6010C	460-522941
460-156630-4	SS-013 (0-3")	T	Solid	6010C	460-522941
460-156630-5	SS-014 (0-3")	T	Solid	6010C	460-522941
460-156630-6	SS-015 (0-3")	T	Solid	6010C	460-522941
460-156630-7	SS-016 (0-3")	T	Solid	6010C	460-522941
460-156630-8	SS-017 (0-3")	T	Solid	6010C	460-522941
460-156630-9	SS-017 (18"-24")	T	Solid	6010C	460-522941
460-156630-10	SS-018 (0-3")	T	Solid	6010C	460-522941
460-156630-11	SS-019 (0-3")	T	Solid	6010C	460-522941
460-156630-12	SS-020 (0-3")	T	Solid	6010C	460-522941
460-156630-13	SS-021 (0-3")	T	Solid	6010C	460-522941
460-156630-14	SS-021 (18"-24")	T	Solid	6010C	460-522941
460-156630-15	SS-022 (0-3")	T	Solid	6010C	460-522941
460-156630-16	SS-023 (0-3")	T	Solid	6010C	460-522941
460-156630-17	SS-023 (18"-24")	T	Solid	6010C	460-522941
460-156630-18	SS-024 (0-3")	T	Solid	6010C	460-522941
460-156630-19	DUP-002	T	Solid	6010C	460-522941
<b>Analysis Batch:460-523033</b>					
LCS 460-522939/2-A ^2	Lab Control Sample	T	Water	6020A	460-522939
MB 460-522939/1-A ^2	Method Blank	T	Water	6020A	460-522939
460-156156-A-2-B DU ^2	Duplicate	T	Water	6020A	460-522939
460-156156-E-2-C MS ^2	Matrix Spike	T	Water	6020A	460-522939
460-156630-20	EB-002	T	Water	6020A	460-522939
<b>Analysis Batch:460-523153</b>					
460-156630-15	SS-022 (0-3")	T	Solid	6010C	460-522941
460-156630-16	SS-023 (0-3")	T	Solid	6010C	460-522941
460-156630-17	SS-023 (18"-24")	T	Solid	6010C	460-522941
460-156630-18	SS-024 (0-3")	T	Solid	6010C	460-522941
460-156630-19	DUP-002	T	Solid	6010C	460-522941

#### Report Basis

T = Total

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:460-521897</b>					
460-156619-A-3 MS	Matrix Spike	T	Solid	Moisture	
460-156630-9	SS-017 (18"-24")	T	Solid	Moisture	
460-156630-10	SS-018 (0-3")	T	Solid	Moisture	
460-156630-11	SS-019 (0-3")	T	Solid	Moisture	
460-156630-12	SS-020 (0-3")	T	Solid	Moisture	
460-156630-13	SS-021 (0-3")	T	Solid	Moisture	
460-156630-14	SS-021 (18"-24")	T	Solid	Moisture	
460-156630-15	SS-022 (0-3")	T	Solid	Moisture	
460-156630-16	SS-023 (0-3")	T	Solid	Moisture	
460-156630-17	SS-023 (18"-24")	T	Solid	Moisture	
460-156630-18	SS-024 (0-3")	T	Solid	Moisture	
460-156630-19	DUP-002	T	Solid	Moisture	
460-156630-19DU	Duplicate	T	Solid	Moisture	
<b>Analysis Batch:460-521916</b>					
460-156630-1	SS-011 (0-3")	T	Solid	Moisture	
460-156630-1DU	Duplicate	T	Solid	Moisture	
<b>Analysis Batch:460-521934</b>					
460-156630-2	SS-011 (18"-24")	T	Solid	Moisture	
460-156630-3	SS-012 (0-3")	T	Solid	Moisture	
460-156630-4	SS-013 (0-3")	T	Solid	Moisture	
460-156630-5	SS-014 (0-3")	T	Solid	Moisture	
460-156630-6	SS-015 (0-3")	T	Solid	Moisture	
460-156630-7	SS-016 (0-3")	T	Solid	Moisture	
460-156630-8	SS-017 (0-3")	T	Solid	Moisture	
460-156772-A-2 DU	Duplicate	T	Solid	Moisture	

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Surrogate Recovery Report

#### 8260C Volatile Organic Compounds by GC/MS

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
460-156630-1	SS-011 (0-3")	107	78	113	112
460-156630-2	SS-011 (18"-24")	108	105	113	102
460-156630-11	SS-019 (0-3")	109	100	110	101
460-156630-13	SS-021 (0-3")	110	99	113	102
460-156630-15	SS-022 (0-3")	110	103	114	103
460-156630-17	SS-023 (18"-24")	104	103	109	99
460-156630-18	SS-024 (0-3")	128	122	132	118
460-156630-19	DUP-002	110	94	113	100
MB 460-522864/7		103	105	111	101
LCS 460-522864/3		99	105	107	103
LCSD 460-522864/4		101	101	104	99

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	78-135
BFB = 4-Bromofluorobenzene	67-126
DBFM = Dibromofluoromethane (Surr)	61-149
TOL = Toluene-d8 (Surr)	73-121



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Surrogate Recovery Report

#### 8260C Volatile Organic Compounds by GC/MS

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
460-156630-20	EB-002	107	99	100	99
460-156630-21	Trip Blank	106	98	100	98
MB 460-522339/6		105	98	99	98
LCS 460-522339/3		103	102	100	100
LCSD 460-522339/4		103	101	101	101

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
BFB = 4-Bromofluorobenzene	77-124
DBFM = Dibromofluoromethane (Surr)	72-131
TOL = Toluene-d8 (Surr)	80-120



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Surrogate Recovery Report

#### 8270D Semivolatile Organic Compounds (GC/MS)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	TBP %Rec	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec
460-156630-1	SS-011 (0-3")	69	51	69	51	69	36
460-156630-2	SS-011 (18"-24")	64	87	78	84	59	89
460-156630-11	SS-019 (0-3")	56	48	40	46	34	51
460-156630-13	SS-021 (0-3")	68	61	55	58	39	61
460-156630-15	SS-022 (0-3")	97	79	65	74	53	84
460-156630-17	SS-023 (18"-24")	77	68	58	64	39	80
460-156630-18	SS-024 (0-3")	70	55	50	53	45	64
460-156630-19	DUP-002	80	62	55	58	39	70
MB 460-521793/1-A		96	88	80	84	70	93
LCS 460-521793/2-A		110X	88	79	84	80	90
LCS 460-521793/3-A		93	87	77	83	68	89
460-156230-A-2-K MS		74	59	50	53	49	63
460-156230-A-2-L MSD		80	63	57	60	58	68

Surrogate	Acceptance Limits
TBP = 2,4,6-Tribromophenol (Surr)	10-103
FBP = 2-Fluorobiphenyl	38-95
2FP = 2-Fluorophenol (Surr)	25-92
NBZ = Nitrobenzene-d5 (Surr)	37-94
PHL = Phenol-d5 (Surr)	32-91
TPHL = Terphenyl-d14 (Surr)	24-109



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Surrogate Recovery Report

#### 8270D Semivolatile Organic Compounds (GC/MS)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	TBP %Rec	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec
460-156630-20	EB-002	68	82	25	82	54X	90
MB 460-521687/1-A		111	104	50	113X	32	123
LCS 460-521687/2-A		112	105	49	107	34	109
LCS 460-521687/4-A		107	106	48	105	31	126
LCSD 460-521687/3-A		108	102	47	103	33	111
LCSD 460-521687/5-A		113	110X	50	112X	31	125

Surrogate	Acceptance Limits
TBP = 2,4,6-Tribromophenol (Surr)	26-139
FBP = 2-Fluorobiphenyl	45-107
2FP = 2-Fluorophenol (Surr)	25-58
NBZ = Nitrobenzene-d5 (Surr)	51-108
PHL = Phenol-d5 (Surr)	14-39
TPHL = Terphenyl-d14 (Surr)	40-148



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Surrogate Recovery Report

#### 8081B Organochlorine Pesticides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCBP1 %Rec	DCBP2 %Rec	TCX1 %Rec	TCX2 %Rec
460-156630-1	SS-011 (0-3")	74	63X	81	78
460-156630-2	SS-011 (18"-24")	87	70	91	81
460-156630-3	SS-012 (0-3")	82	88	85	77
460-156630-4	SS-013 (0-3")	93	81	91	88
460-156630-5	SS-014 (0-3")	90	78	82	78
460-156630-6 DL	SS-015 (0-3") DL	108	91	75	70X
460-156630-7	SS-016 (0-3")	89	76	87	78
460-156630-8	SS-017 (0-3")	89	79	97	85
460-156630-9	SS-017 (18"-24")	108	94	100	103
460-156630-10 DL	SS-018 (0-3") DL	130	125	93	88
460-156630-11 DL	SS-019 (0-3") DL	114	104	80	79
460-156630-12	SS-020 (0-3")	86	75	83	78
460-156630-13 DL	SS-021 (0-3") DL	111	130	98	96
460-156630-14	SS-021 (18"-24")	92	79	91	83
460-156630-15	SS-022 (0-3")	90	80	75	75
460-156630-16	SS-023 (0-3")	88	77	71X	77
460-156630-17	SS-023 (18"-24")	88	77	82	86
460-156630-18	SS-024 (0-3")	91	79	90	83
460-156630-19 DL	DUP-002 DL	0X	0X	0X	0X
MB 460-521834/1-A		77	74	79	75
LCS 460-521834/2-A		74	74	75	82
460-156630-1 MS	SS-011 (0-3") MS	62X	44X	75	78
460-156630-1 MSD	SS-011 (0-3") MSD	54X	47X	75	77

##### Surrogate

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

##### Acceptance Limits

69-150

74-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Surrogate Recovery Report

#### 8081B Organochlorine Pesticides (GC)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCBP1 %Rec	DCBP2 %Rec	TCX1 %Rec	TCX2 %Rec
460-156630-20	EB-002	72	52	68	63
MB 460-521701/1-A		88	87	75	82
LCS 460-521701/2-A		86	87	77	76
LCSD 460-521701/3-A		93	91	78	75

Surrogate	Acceptance Limits
DCBP = DCB Decachlorobiphenyl	10-150
TCX = Tetrachloro-m-xylene	12-136



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Surrogate Recovery Report

#### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCBP1	DCBP2
		%Rec	%Rec
460-156630-1	SS-011 (0-3")	82	92
460-156630-2	SS-011 (18"-24")	93	95
460-156630-11	SS-019 (0-3")	119p	209X
460-156630-13	SS-021 (0-3")	135	137
460-156630-15	SS-022 (0-3")	106	113
460-156630-17	SS-023 (18"-24")	101	95
460-156630-18	SS-024 (0-3")	99	83
460-156630-19	DUP-002	131	190X
MB 460-521832/1-A		100	96
LCS 460-521832/2-A		102	94
460-156630-1 MS	SS-011 (0-3") MS	72	82
460-156630-1 MSD	SS-011 (0-3") MSD	84	90

Surrogate

Acceptance Limits

DCBP = DCB Decachlorobiphenyl

53-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Surrogate Recovery Report

#### 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCBP1	DCBP2
		%Rec	%Rec
460-156630-20	EB-002	34p	67
MB 460-521703/1-A		83	83
LCS 460-521703/2-A		86	98
LCSD		79	93
460-521703/3-A			

Surrogate

Acceptance Limits

DCBP = DCB Decachlorobiphenyl

10-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Surrogate Recovery Report

#### 8151A Herbicides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCPAA1	DCPAA2
		%Rec	%Rec
460-156630-1	SS-011 (0-3")	148	110
460-156630-2	SS-011 (18"-24")	100	103
460-156630-3	SS-012 (0-3")	126	104
460-156630-4	SS-013 (0-3")	119	107
460-156630-5	SS-014 (0-3")	105	113
460-156630-6	SS-015 (0-3")	104	150
460-156630-7	SS-016 (0-3")	116	114
460-156630-8	SS-017 (0-3")	124	126
460-156630-9	SS-017 (18"-24")	115	125
460-156630-10	SS-018 (0-3")	128	170X
460-156630-11	SS-019 (0-3")	141	132
460-156630-12	SS-020 (0-3")	261X	126p
460-156630-13	SS-021 (0-3")	139	128
460-156630-14	SS-021 (18"-24")	97	116
460-156630-15	SS-022 (0-3")	87p	164X
460-156630-16	SS-023 (0-3")	131	134
460-156630-17	SS-023 (18"-24")	134	127
460-156630-18	SS-024 (0-3")	133	140
460-156630-19	DUP-002	94	103
MB 460-522027/1-A		149	142
LCS 460-522027/2-A		143	147
460-156630-1 MS	SS-011 (0-3") MS	130	131
460-156630-1 MSD	SS-011 (0-3") MSD	131	120

Surrogate

DCPAA = 2,4-Dichlorophenylacetic acid

Acceptance Limits

80-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Surrogate Recovery Report

#### 8151A Herbicides (GC)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPAA1	DCPAA2
		%Rec	%Rec
460-156630-20	EB-002	101	102
MB 460-522026/1-A		97	100
LCS 460-522026/2-A		116	107
LCSD		116	105
460-522026/3-A			

Surrogate

Acceptance Limits

DCPAA = 2,4-Dichlorophenylacetic acid

54-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-522339

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 460-522339/6  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/25/2018 0056  
Prep Date: 05/25/2018 0056  
Leach Date: N/A

Analysis Batch: 460-522339  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CVOAMS15  
Lab File ID: T07835.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	4.95	J	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-522339

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 460-522339/6  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/25/2018 0056  
Prep Date: 05/25/2018 0056  
Leach Date: N/A

Analysis Batch: 460-522339  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CVOAMS15  
Lab File ID: T07835.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	1.0	U	0.12	1.0
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105	74 - 132
4-Bromofluorobenzene	98	77 - 124
Dibromofluoromethane (Surr)	99	72 - 131
Toluene-d8 (Surr)	98	80 - 120



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522339

Method: 8260C

Preparation: 5030C

LCS Lab Sample ID: LCS 460-522339/3	Analysis Batch: 460-522339	Instrument ID: CVOAMS15
Client Matrix: Water	Prep Batch: N/A	Lab File ID: T07832.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/24/2018 2330	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/24/2018 2330		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-522339/4	Analysis Batch: 460-522339	Instrument ID: CVOAMS15
Client Matrix: Water	Prep Batch: N/A	Lab File ID: T07833.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/25/2018 0006	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/25/2018 0006		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	93	91	75 - 125	3	30		
1,1,2,2-Tetrachloroethane	84	82	74 - 120	2	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	86	86	59 - 150	0	30		
1,1,2-Trichloroethane	89	87	78 - 120	2	30		
1,1-Dichloroethane	91	90	77 - 123	1	30		
1,1-Dichloroethene	86	86	74 - 123	1	30		
1,2,3-Trichlorobenzene	86	85	78 - 131	1	30		
1,2,4-Trichlorobenzene	83	85	80 - 124	2	30		
1,2-Dibromo-3-Chloropropane	86	81	55 - 134	6	30		
1,2-Dichlorobenzene	84	84	80 - 120	1	30		
1,2-Dichloroethane	92	91	76 - 121	1	30		
1,2-Dichloropropane	91	90	77 - 123	1	30		
1,3-Dichlorobenzene	85	84	80 - 120	1	30		
1,4-Dichlorobenzene	82	82	80 - 120	0	30		
1,4-Dioxane	93	94	10 - 150	0	30		
2-Butanone (MEK)	86	84	64 - 120	3	30		
2-Hexanone	91	89	71 - 125	1	30		
4-Methyl-2-pentanone (MIBK)	91	91	78 - 124	0	30		
Acetone	88	87	39 - 150	0	30		
Benzene	88	87	77 - 121	2	30		
Bromoform	69	67	53 - 120	2	30		
Bromomethane	81	94	10 - 150	14	30		
Carbon disulfide	82	83	69 - 133	1	30		
Carbon tetrachloride	87	87	70 - 132	1	30		
Chlorobenzene	86	85	80 - 120	1	30		
Chlorobromomethane	89	90	77 - 127	0	30		
Chlorodibromomethane	86	87	73 - 120	1	30		
Chloroethane	126	128	52 - 150	2	30		
Chloroform	93	92	80 - 120	1	30		
Chloromethane	80	80	56 - 131	0	30		
cis-1,2-Dichloroethene	89	87	80 - 120	2	30		
cis-1,3-Dichloropropene	91	90	77 - 120	1	30		
Cyclohexane	88	88	56 - 150	1	30		
Dichlorobromomethane	89	88	76 - 120	0	30		
Dichlorodifluoromethane	89	89	50 - 131	1	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522339

Method: 8260C

Preparation: 5030C

LCS Lab Sample ID: LCS 460-522339/3	Analysis Batch: 460-522339	Instrument ID: CVOAMS15
Client Matrix: Water	Prep Batch: N/A	Lab File ID: T07832.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/24/2018 2330	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/24/2018 2330		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-522339/4	Analysis Batch: 460-522339	Instrument ID: CVOAMS15
Client Matrix: Water	Prep Batch: N/A	Lab File ID: T07833.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/25/2018 0006	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/25/2018 0006		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethylbenzene	87	85	80 - 120	2	30		
Ethylene Dibromide	90	87	80 - 120	3	30		
Isopropylbenzene	91	89	80 - 123	2	30		
Methyl acetate	90	87	66 - 144	4	30		
Methyl tert-butyl ether	90	88	79 - 122	2	30		
Methylcyclohexane	89	88	61 - 145	1	30		
Methylene Chloride	88	88	77 - 123	0	30		
m-Xylene & p-Xylene	89	87	80 - 120	2	30		
o-Xylene	87	86	80 - 120	2	30		
Styrene	88	87	80 - 120	1	30		
Tetrachloroethene	87	86	78 - 122	1	30		
Toluene	88	88	80 - 120	0	30		
trans-1,2-Dichloroethene	88	87	79 - 120	0	30		
trans-1,3-Dichloropropene	90	89	76 - 120	1	30		
Trichloroethene	87	87	77 - 120	1	30		
Trichlorofluoromethane	91	91	71 - 143	0	30		
Vinyl chloride	91	90	62 - 138	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	103	74 - 132
4-Bromofluorobenzene	102	101	77 - 124
Dibromofluoromethane (Surr)	100	101	72 - 131
Toluene-d8 (Surr)	100	101	80 - 120



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-522864

### Method: 8260C Preparation: N/A

Lab Sample ID: MB 460-522864/7  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/26/2018 1929  
Prep Date: N/A  
Leach Date: N/A

Analysis Batch: 460-522864  
Prep Batch: N/A  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CVOAMS9  
Lab File ID: K84138.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.0010	U	0.00023	0.0010
1,1,2,2-Tetrachloroethane	0.0010	U	0.00021	0.0010
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.00030	0.0010
1,1,2-Trichloroethane	0.0010	U	0.00018	0.0010
1,1-Dichloroethane	0.0010	U	0.00021	0.0010
1,1-Dichloroethene	0.0010	U	0.00023	0.0010
1,2,3-Trichlorobenzene	0.0010	U	0.00018	0.0010
1,2,4-Trichlorobenzene	0.0010	U	0.000092	0.0010
1,2-Dibromo-3-Chloropropane	0.0010	U	0.00046	0.0010
1,2-Dichlorobenzene	0.0010	U	0.00014	0.0010
1,2-Dichloroethane	0.0010	U	0.00030	0.0010
1,2-Dichloropropane	0.0010	U	0.00042	0.0010
1,3-Dichlorobenzene	0.0010	U	0.00016	0.0010
1,4-Dichlorobenzene	0.0010	U	0.00010	0.0010
1,4-Dioxane	0.020	U	0.0092	0.020
2-Butanone (MEK)	0.0050	U	0.0011	0.0050
2-Hexanone	0.0050	U	0.00078	0.0050
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.00066	0.0050
Acetone	0.0050	U	0.0038	0.0050
Benzene	0.0010	U	0.00026	0.0010
Bromoform	0.0010	U	0.00043	0.0010
Bromomethane	0.0010	U	0.00047	0.0010
Carbon disulfide	0.0010	U	0.00027	0.0010
Carbon tetrachloride	0.0010	U	0.00018	0.0010
Chlorobenzene	0.0010	U	0.00018	0.0010
Chlorobromomethane	0.0010	U	0.00028	0.0010
Chlorodibromomethane	0.0010	U	0.00019	0.0010
Chloroethane	0.0010	U	0.00052	0.0010
Chloroform	0.0010	U	0.00032	0.0010
Chloromethane	0.0010	U	0.00044	0.0010
cis-1,2-Dichloroethene	0.0010	U	0.00015	0.0010
cis-1,3-Dichloropropene	0.0010	U	0.00027	0.0010
Cyclohexane	0.0010	U	0.00022	0.0010
Dichlorobromomethane	0.0010	U	0.00026	0.0010
Dichlorodifluoromethane	0.0010	U	0.00034	0.0010
Ethylbenzene	0.0010	U	0.00020	0.0010
Ethylene Dibromide	0.0010	U	0.00018	0.0010
Isopropylbenzene	0.0010	U	0.00013	0.0010
Methyl acetate	0.0050	U	0.0043	0.0050
Methyl tert-butyl ether	0.0010	U	0.00013	0.0010
Methylcyclohexane	0.0010	U	0.00016	0.0010
Methylene Chloride	0.000167	J	0.00016	0.0010
m-Xylene & p-Xylene	0.0010	U	0.00017	0.0010
o-Xylene	0.0010	U	0.000095	0.0010
Styrene	0.0010	U	0.00012	0.0010



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-522864

**Method: 8260C**  
**Preparation: N/A**

Lab Sample ID:	MB 460-522864/7	Analysis Batch:	460-522864	Instrument ID:	CVOAMS9
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	K84138.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	05/26/2018 1929	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	0.0010	U	0.00014	0.0010
Toluene	0.0010	U	0.00063	0.0010
trans-1,2-Dichloroethene	0.0010	U	0.00025	0.0010
trans-1,3-Dichloropropene	0.0010	U	0.00027	0.0010
Trichloroethene	0.0010	U	0.00014	0.0010
Trichlorofluoromethane	0.000411	J	0.00041	0.0010
Vinyl chloride	0.0010	U	0.00055	0.0010

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	78 - 135
4-Bromofluorobenzene	105	67 - 126
Dibromofluoromethane (Surr)	111	61 - 149
Toluene-d8 (Surr)	101	73 - 121



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522864

Method: 8260C

Preparation: N/A

LCS Lab Sample ID: LCS 460-522864/3	Analysis Batch: 460-522864	Instrument ID: CVOAMS9
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: K84134.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/26/2018 1740	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-522864/4	Analysis Batch: 460-522864	Instrument ID: CVOAMS9
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: K84135.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/26/2018 1805	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	109	106	80 - 125	3	30		
1,1,2,2-Tetrachloroethane	91	90	72 - 131	1	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	113	112	78 - 132	1	30		
1,1,2-Trichloroethane	96	94	76 - 124	3	30		
1,1-Dichloroethane	105	106	80 - 124	1	30		
1,1-Dichloroethene	103	107	79 - 132	4	30		
1,2,3-Trichlorobenzene	98	99	75 - 123	1	30		
1,2,4-Trichlorobenzene	101	100	74 - 124	1	30		
1,2-Dibromo-3-Chloropropane	88	86	65 - 129	3	30		
1,2-Dichlorobenzene	97	97	80 - 121	0	30		
1,2-Dichloroethane	95	96	68 - 120	1	30		
1,2-Dichloropropane	100	99	77 - 124	1	30		
1,3-Dichlorobenzene	98	98	79 - 124	0	30		
1,4-Dichlorobenzene	98	97	79 - 121	1	30		
1,4-Dioxane	98	97	67 - 150	2	30		
2-Butanone (MEK)	95	94	61 - 140	1	30		
2-Hexanone	101	97	78 - 120	4	30		
4-Methyl-2-pentanone (MIBK)	102	100	80 - 120	2	30		
Acetone	97	98	75 - 120	1	30		
Benzene	101	101	75 - 127	0	30		
Bromoform	94	92	19 - 150	2	30		
Bromomethane	115	115	59 - 136	0	30		
Carbon disulfide	101	101	74 - 130	0	30		
Carbon tetrachloride	107	107	77 - 138	0	30		
Chlorobenzene	101	98	80 - 120	3	30		
Chlorobromomethane	102	100	80 - 125	1	30		
Chlorodibromomethane	94	92	67 - 143	3	30		
Chloroethane	115	115	50 - 139	0	30		
Chloroform	104	102	80 - 122	1	30		
Chloromethane	114	113	66 - 128	1	30		
cis-1,2-Dichloroethene	103	104	80 - 123	1	30		
cis-1,3-Dichloropropene	97	97	75 - 124	0	30		
Cyclohexane	112	109	67 - 135	3	30		
Dichlorobromomethane	99	99	76 - 129	0	30		
Dichlorodifluoromethane	97	93	72 - 127	5	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522864

Method: 8260C

Preparation: N/A

LCS Lab Sample ID: LCS 460-522864/3	Analysis Batch: 460-522864	Instrument ID: CVOAMS9
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: K84134.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/26/2018 1740	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-522864/4	Analysis Batch: 460-522864	Instrument ID: CVOAMS9
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: K84135.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/26/2018 1805	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethylbenzene	103	100	79 - 124	3	30		
Ethylene Dibromide	95	95	80 - 122	1	30		
Isopropylbenzene	107	104	80 - 125	3	30		
Methyl acetate	99	103	73 - 123	4	30		
Methyl tert-butyl ether	101	104	80 - 120	2	30		
Methylcyclohexane	113	111	71 - 137	2	30		
Methylene Chloride	99	102	79 - 128	3	30		
m-Xylene & p-Xylene	102	101	79 - 121	1	30		
o-Xylene	104	102	79 - 123	1	30		
Styrene	102	101	78 - 123	1	30		
Tetrachloroethene	103	102	73 - 130	1	30		
Toluene	98	99	75 - 122	1	30		
trans-1,2-Dichloroethene	104	105	80 - 129	1	30		
trans-1,3-Dichloropropene	94	93	72 - 121	0	30		
Trichloroethene	103	103	79 - 122	0	30		
Trichlorofluoromethane	123	114	68 - 136	8	30		
Vinyl chloride	122	121	70 - 134	0	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	101	78 - 135
4-Bromofluorobenzene	105	101	67 - 126
Dibromofluoromethane (Surr)	107	104	61 - 149
Toluene-d8 (Surr)	103	99	73 - 121



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-521687

### Method: 8270D

### Preparation: 3510C

Lab Sample ID: MB 460-521687/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/23/2018 1534  
 Prep Date: 05/23/2018 0638  
 Leach Date: N/A

Analysis Batch: 460-521850  
 Prep Batch: 460-521687  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CBNAMS16  
 Lab File ID: A153275.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 5 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	10	U	1.2	10
1,2,4,5-Tetrachlorobenzene	10	U	1.2	10
2,2'-oxybis[1-chloropropane]	10	U	0.63	10
2,3,4,6-Tetrachlorophenol	10	U	0.75	10
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	10	U	0.30	10
2,4-Dichlorophenol	10	U	0.42	10
2,4-Dimethylphenol	10	U	0.24	10
2,4-Dinitrophenol	20	U	14	20
2,4-Dinitrotoluene	2.0	U	1.0	2.0
2,6-Dinitrotoluene	2.0	U	0.39	2.0
2-Chloronaphthalene	10	U	1.2	10
2-Chlorophenol	10	U	0.38	10
2-Methylnaphthalene	10	U	1.1	10
2-Methylphenol	10	U	0.26	10
2-Nitroaniline	10	U	0.47	10
2-Nitrophenol	10	U	0.75	10
3,3'-Dichlorobenzidine	10	U	1.4	10
3-Nitroaniline	10	U	0.96	10
4,6-Dinitro-2-methylphenol	20	U	13	20
4-Bromophenyl phenyl ether	10	U	0.75	10
4-Chloro-3-methylphenol	10	U	0.58	10
4-Chloroaniline	10	U	1.9	10
4-Chlorophenyl phenyl ether	10	U	1.3	10
4-Methylphenol	10	U	0.24	10
4-Nitroaniline	10	U	0.54	10
4-Nitrophenol	20	U	0.69	20
Acenaphthene	10	U	1.1	10
Acenaphthylene	10	U	0.82	10
Acetophenone	10	U	0.79	10
Anthracene	10	U	0.63	10
Atrazine	2.0	U	1.3	2.0
Benzaldehyde	10	U	0.59	10
Benzo[a]anthracene	1.0	U	0.59	1.0
Benzo[a]pyrene	1.0	U	0.41	1.0
Benzo[b]fluoranthene	2.0	U	1.1	2.0
Benzo[g,h,i]perylene	10	U	1.4	10
Benzo[k]fluoranthene	1.0	U	0.67	1.0
Bis(2-chloroethoxy)methane	10	U	0.24	10
Bis(2-chloroethyl)ether	1.0	U	0.30	1.0
Bis(2-ethylhexyl) phthalate	2.0	U	1.7	2.0
Butyl benzyl phthalate	10	U	0.85	10
Caprolactam	10	U	0.68	10
Carbazole	10	U	0.68	10
Chrysene	2.0	U	0.91	2.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-521687

### Method: 8270D

### Preparation: 3510C

Lab Sample ID: MB 460-521687/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/23/2018 1534  
 Prep Date: 05/23/2018 0638  
 Leach Date: N/A

Analysis Batch: 460-521850  
 Prep Batch: 460-521687  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CBNAMS16  
 Lab File ID: A153275.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 5 uL

Analyte	Result	Qual	MDL	RL
Dibenz(a,h)anthracene	1.0	U	0.72	1.0
Dibenzofuran	10	U	1.1	10
Diethyl phthalate	10	U	0.98	10
Dimethyl phthalate	10	U	0.77	10
Di-n-butyl phthalate	10	U	0.84	10
Di-n-octyl phthalate	10	U	4.8	10
Fluoranthene	10	U	0.84	10
Fluorene	10	U	0.91	10
Hexachlorobenzene	1.0	U	0.40	1.0
Hexachlorobutadiene	1.0	U	0.78	1.0
Hexachlorocyclopentadiene	10	U	1.7	10
Hexachloroethane	2.0	U	1.2	2.0
Indeno[1,2,3-cd]pyrene	2.0	U	1.3	2.0
Isophorone	10	U	0.80	10
Naphthalene	10	U	1.1	10
Nitrobenzene	1.0	U	0.57	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.43	1.0
N-Nitrosodiphenylamine	10	U	0.89	10
Pentachlorophenol	20	U	1.4	20
Phenanthrene	10	U	0.58	10
Phenol	10	U	0.29	10
Pyrene	10	U	1.6	10

Surrogate	% Rec		Acceptance Limits
2,4,6-Tribromophenol (Surr)	111		26 - 139
2-Fluorobiphenyl	104		45 - 107
2-Fluorophenol (Surr)	50		25 - 58
Nitrobenzene-d5 (Surr)	113	X	51 - 108
Phenol-d5 (Surr)	32		14 - 39
Terphenyl-d14 (Surr)	123		40 - 148



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-521687

Method: 8270D

Preparation: 3510C

LCS Lab Sample ID: LCS 460-521687/2-A	Analysis Batch: 460-521850	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-521687	Lab File ID: A153276.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/23/2018 1555	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/23/2018 0638		Injection Volume: 5 uL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-521687/3-A	Analysis Batch: 460-521850	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-521687	Lab File ID: A153277.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/23/2018 1616	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/23/2018 0638		Injection Volume: 5 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1'-Biphenyl	103	101	54 - 108	2	30		
1,2,4,5-Tetrachlorobenzene	95	97	46 - 105	2	30		
2,2'-oxybis[1-chloropropane]	103	97	50 - 108	6	30		
2,3,4,6-Tetrachlorophenol	103	102	57 - 122	1	30		
2,4,5-Trichlorophenol	96	99	59 - 117	3	30		
2,4,6-Trichlorophenol	99	100	62 - 120	1	30		
2,4-Dichlorophenol	95	92	62 - 102	4	30		
2,4-Dimethylphenol	90	92	61 - 95	1	30		
2,4-Dinitrophenol	91	92	45 - 125	0	30		
2,4-Dinitrotoluene	108	105	70 - 123	3	30		
2,6-Dinitrotoluene	106	107	68 - 121	0	30		
2-Chloronaphthalene	99	98	54 - 105	0	30		
2-Chlorophenol	86	81	54 - 92	6	30		
2-Methylnaphthalene	103	99	47 - 104	4	30		
2-Methylphenol	75	71	43 - 80	5	30		
2-Nitroaniline	96	93	46 - 124	3	30		
2-Nitrophenol	103	98	58 - 109	5	30		
3,3'-Dichlorobenzidine	98	106	68 - 123	8	30		
3-Nitroaniline	92	93	60 - 117	1	30		
4,6-Dinitro-2-methylphenol	109	106	59 - 132	3	30		
4-Bromophenyl phenyl ether	110	114	57 - 126	3	30		
4-Chloro-3-methylphenol	93	92	58 - 98	1	30		
4-Chloroaniline	86	93	51 - 108	8	30		
4-Chlorophenyl phenyl ether	107	103	60 - 114	4	30		
4-Methylphenol	65	66	34 - 78	1	30		
4-Nitroaniline	94	95	48 - 135	1	30		
4-Nitrophenol	37	38	11 - 47	3	30		
Acenaphthene	102	97	58 - 107	5	30		
Acenaphthylene	98	95	61 - 106	3	30		
Acetophenone	108	104	54 - 115	4	30		
Anthracene	108	106	70 - 118	2	30		
Benzo[a]anthracene	105	105	73 - 119	0	30		
Benzo[a]pyrene	107	107	76 - 125	0	30		
Benzo[b]fluoranthene	116	114	78 - 123	2	30		
Benzo[g,h,i]perylene	98	101	63 - 133	3	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-521687

Method: 8270D

Preparation: 3510C

LCS Lab Sample ID: LCS 460-521687/2-A	Analysis Batch: 460-521850	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-521687	Lab File ID: A153276.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/23/2018 1555	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/23/2018 0638		Injection Volume: 5 uL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-521687/3-A	Analysis Batch: 460-521850	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-521687	Lab File ID: A153277.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/23/2018 1616	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/23/2018 0638		Injection Volume: 5 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzo[k]fluoranthene	111	111	71 - 126	0	30		
Bis(2-chloroethoxy)methane	107	104	67 - 104	3	30	*	
Bis(2-chloroethyl)ether	101	98	63 - 106	3	30		
Bis(2-ethylhexyl) phthalate	124	123	63 - 135	1	30		
Butyl benzyl phthalate	115	117	66 - 129	2	30		
Carbazole	105	105	68 - 121	0	30		
Chrysene	104	106	73 - 121	2	30		
Dibenz(a,h)anthracene	98	101	59 - 136	3	30		
Dibenzofuran	101	98	67 - 108	3	30		
Diethyl phthalate	111	108	61 - 129	3	30		
Dimethyl phthalate	108	105	65 - 121	3	30		
Di-n-butyl phthalate	118	116	64 - 130	2	30		
Di-n-octyl phthalate	138	135	64 - 131	3	30	*	*
Fluoranthene	106	102	66 - 123	4	30		
Fluorene	106	102	67 - 112	4	30		
Hexachlorobenzene	112	112	63 - 125	0	30		
Hexachlorobutadiene	83	80	34 - 99	4	30		
Hexachlorocyclopentadiene	86	86	18 - 99	1	30		
Hexachloroethane	84	78	39 - 92	8	30		
Indeno[1,2,3-cd]pyrene	95	101	57 - 142	6	30		
Isophorone	104	102	55 - 105	2	30		
Naphthalene	95	90	51 - 98	6	30		
Nitrobenzene	105	102	56 - 106	3	30		
N-Nitrosodi-n-propylamine	117	110	48 - 118	6	30		
N-Nitrosodiphenylamine	105	107	69 - 118	2	30		
Pentachlorophenol	98	100	54 - 120	2	30		
Phenanthrene	107	107	70 - 117	0	30		
Phenol	35	35	16 - 43	1	30		
Pyrene	115	118	63 - 129	3	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
2,4,6-Tribromophenol (Surr)	112		108		26 - 139		
2-Fluorobiphenyl	105		102		45 - 107		
2-Fluorophenol (Surr)	49		47		25 - 58		
Nitrobenzene-d5 (Surr)	107		103		51 - 108		
Phenol-d5 (Surr)	34		33		14 - 39		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Terphenyl-d14 (Surr)	109	111	40 - 148

### Lab Control Sample/

Method: 8270D

Lab Control Sample Duplicate Recovery Report - Batch: 460-521687 Preparation: 3510C

LCS Lab Sample ID: LCS 460-521687/4-A	Analysis Batch: 460-521850	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-521687	Lab File ID: A153278.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/23/2018 1637	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/23/2018 0638		Injection Volume: 5 uL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-521687/5-A	Analysis Batch: 460-521850	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-521687	Lab File ID: A153279.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/23/2018 1658	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/23/2018 0638		Injection Volume: 5 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Atrazine	108	118	38 - 146	9	30		
Benzaldehyde	110	119	46 - 111	8	30		*
Caprolactam	20	21	10 - 43	6	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits	
2,4,6-Tribromophenol (Surr)	107	113	26 - 139	
2-Fluorobiphenyl	106	110	X	45 - 107
2-Fluorophenol (Surr)	48	50		25 - 58
Nitrobenzene-d5 (Surr)	105	112	X	51 - 108
Phenol-d5 (Surr)	31	31		14 - 39
Terphenyl-d14 (Surr)	126	125		40 - 148



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-521793

### Method: 8270D Preparation: 3546

Lab Sample ID: MB 460-521793/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 0729  
Prep Date: 05/23/2018 1044  
Leach Date: N/A

Analysis Batch: 460-522029  
Prep Batch: 460-521793  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CBNAMS12  
Lab File ID: L2079223.d  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	0.33	U	0.0044	0.33
1,2,4,5-Tetrachlorobenzene	0.33	U	0.0043	0.33
2,2'-oxybis[1-chloropropane]	0.33	U	0.0060	0.33
2,3,4,6-Tetrachlorophenol	0.33	U	0.022	0.33
2,4,5-Trichlorophenol	0.33	U	0.011	0.33
2,4,6-Trichlorophenol	0.13	U	0.017	0.13
2,4-Dichlorophenol	0.13	U	0.0070	0.13
2,4-Dimethylphenol	0.33	U	0.015	0.33
2,4-Dinitrophenol	0.27	U	0.16	0.27
2,4-Dinitrotoluene	0.067	U	0.017	0.067
2,6-Dinitrotoluene	0.067	U	0.011	0.067
2-Chloronaphthalene	0.33	U	0.015	0.33
2-Chlorophenol	0.33	U	0.0046	0.33
2-Methylnaphthalene	0.33	U	0.0041	0.33
2-Methylphenol	0.33	U	0.0053	0.33
2-Nitroaniline	0.33	U	0.012	0.33
2-Nitrophenol	0.33	U	0.011	0.33
3,3'-Dichlorobenzidine	0.13	U	0.050	0.13
3-Nitroaniline	0.33	U	0.018	0.33
4,6-Dinitro-2-methylphenol	0.27	U	0.054	0.27
4-Bromophenyl phenyl ether	0.33	U	0.0043	0.33
4-Chloro-3-methylphenol	0.33	U	0.0055	0.33
4-Chloroaniline	0.33	U	0.023	0.33
4-Chlorophenyl phenyl ether	0.33	U	0.0052	0.33
4-Methylphenol	0.33	U	0.0056	0.33
4-Nitroaniline	0.33	U	0.012	0.33
4-Nitrophenol	0.67	U	0.054	0.67
Acenaphthene	0.33	U	0.024	0.33
Acenaphthylene	0.33	U	0.0034	0.33
Acetophenone	0.33	U	0.0053	0.33
Anthracene	0.33	U	0.0037	0.33
Atrazine	0.13	U	0.0083	0.13
Benzaldehyde	0.33	U	0.014	0.33
Benzo[a]anthracene	0.033	U	0.012	0.033
Benzo[a]pyrene	0.033	U	0.0088	0.033
Benzo[b]fluoranthene	0.033	U	0.0086	0.033
Benzo[g,h,i]perylene	0.33	U	0.0098	0.33
Benzo[k]fluoranthene	0.033	U	0.0065	0.033
Bis(2-chloroethoxy)methane	0.33	U	0.011	0.33
Bis(2-chloroethyl)ether	0.033	U	0.0040	0.033
Bis(2-ethylhexyl) phthalate	0.33	U	0.017	0.33
Butyl benzyl phthalate	0.33	U	0.016	0.33
Caprolactam	0.33	U	0.020	0.33
Carbazole	0.33	U	0.0039	0.33
Chrysene	0.33	U	0.0056	0.33



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-521793

### Method: 8270D Preparation: 3546

Lab Sample ID: MB 460-521793/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 0729  
Prep Date: 05/23/2018 1044  
Leach Date: N/A

Analysis Batch: 460-522029  
Prep Batch: 460-521793  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CBNAMS12  
Lab File ID: L2079223.d  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Dibenz(a,h)anthracene	0.033	U	0.014	0.033
Dibenzofuran	0.33	U	0.0046	0.33
Diethyl phthalate	0.33	U	0.0048	0.33
Dimethyl phthalate	0.33	U	0.0040	0.33
Di-n-butyl phthalate	0.33	U	0.058	0.33
Di-n-octyl phthalate	0.33	U	0.018	0.33
Fluoranthene	0.33	U	0.0043	0.33
Fluorene	0.33	U	0.0045	0.33
Hexachlorobenzene	0.033	U	0.0048	0.033
Hexachlorobutadiene	0.067	U	0.0070	0.067
Hexachlorocyclopentadiene	0.33	U	0.029	0.33
Hexachloroethane	0.033	U	0.0051	0.033
Indeno[1,2,3-cd]pyrene	0.033	U	0.013	0.033
Isophorone	0.13	U	0.0087	0.13
Naphthalene	0.33	U	0.0057	0.33
Nitrobenzene	0.033	U	0.0079	0.033
N-Nitrosodi-n-propylamine	0.033	U	0.0053	0.033
N-Nitrosodiphenylamine	0.33	U	0.0063	0.33
Pentachlorophenol	0.27	U	0.068	0.27
Phenanthrene	0.33	U	0.0058	0.33
Phenol	0.33	U	0.0049	0.33
Pyrene	0.33	U	0.0082	0.33

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	96	10 - 103
2-Fluorobiphenyl	88	38 - 95
2-Fluorophenol (Surr)	80	25 - 92
Nitrobenzene-d5 (Surr)	84	37 - 94
Phenol-d5 (Surr)	70	32 - 91
Terphenyl-d14 (Surr)	93	24 - 109



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample - Batch: 460-521793

**Method: 8270D**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-521793/2-A	Analysis Batch:	460-522029	Instrument ID:	CBNAMS12
Client Matrix:	Solid	Prep Batch:	460-521793	Lab File ID:	L2079224.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/24/2018 0752	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/23/2018 1044			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1'-Biphenyl	3.33	2.86	86	64 - 108	
1,2,4,5-Tetrachlorobenzene	3.33	2.95	89	57 - 112	
2,2'-oxybis[1-chloropropane]	3.33	2.33	70	39 - 122	
2,3,4,6-Tetrachlorophenol	3.33	3.19	96	60 - 114	
2,4,5-Trichlorophenol	3.33	2.88	86	60 - 106	
2,4,6-Trichlorophenol	3.33	3.15	94	62 - 110	
2,4-Dichlorophenol	3.33	3.08	92	61 - 103	
2,4-Dimethylphenol	3.33	2.79	84	63 - 101	
2,4-Dinitrophenol	6.67	4.11	62	56 - 122	
2,4-Dinitrotoluene	3.33	3.29	99	66 - 122	
2,6-Dinitrotoluene	3.33	3.14	94	70 - 114	
2-Chloronaphthalene	3.33	2.85	86	63 - 107	
2-Chlorophenol	3.33	2.72	82	62 - 97	
2-Methylnaphthalene	3.33	2.86	86	65 - 104	
2-Methylphenol	3.33	2.65	79	61 - 103	
2-Nitroaniline	3.33	2.99	90	57 - 114	
2-Nitrophenol	3.33	2.91	87	65 - 104	
3,3'-Dichlorobenzidine	3.33	2.01	60	18 - 88	
3-Nitroaniline	3.33	2.50	75	30 - 94	
4,6-Dinitro-2-methylphenol	6.67	5.36	80	67 - 120	
4-Bromophenyl phenyl ether	3.33	2.99	90	59 - 122	
4-Chloro-3-methylphenol	3.33	3.18	95	62 - 111	
4-Chloroaniline	3.33	2.23	67	18 - 94	
4-Chlorophenyl phenyl ether	3.33	3.11	93	66 - 110	
4-Methylphenol	3.33	2.38	71	61 - 105	
4-Nitroaniline	3.33	2.70	81	49 - 118	
4-Nitrophenol	6.67	5.98	90	43 - 141	
Acenaphthene	3.33	2.52	76	62 - 108	
Acenaphthylene	3.33	2.82	84	67 - 107	
Acetophenone	3.33	2.66	80	60 - 109	
Anthracene	3.33	3.07	92	69 - 111	
Benzo[a]anthracene	3.33	3.02	91	68 - 110	
Benzo[a]pyrene	3.33	3.38	102	72 - 115	
Benzo[b]fluoranthene	3.33	3.37	101	69 - 119	
Benzo[g,h,i]perylene	3.33	2.94	88	54 - 128	
Benzo[k]fluoranthene	3.33	3.39	102	70 - 115	
Bis(2-chloroethoxy)methane	3.33	2.61	78	65 - 106	
Bis(2-chloroethyl)ether	3.33	2.58	77	64 - 105	
Bis(2-ethylhexyl) phthalate	3.33	3.13	94	63 - 125	
Butyl benzyl phthalate	3.33	3.18	95	65 - 125	
Carbazole	3.33	2.98	89	66 - 115	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample - Batch: 460-521793

**Method: 8270D**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-521793/2-A	Analysis Batch:	460-522029	Instrument ID:	CBNAMS12
Client Matrix:	Solid	Prep Batch:	460-521793	Lab File ID:	L2079224.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/24/2018 0752	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/23/2018 1044			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chrysene	3.33	3.06	92	70 - 111	
Dibenz(a,h)anthracene	3.33	3.19	96	60 - 130	
Dibenzofuran	3.33	2.95	88	67 - 107	
Diethyl phthalate	3.33	3.16	95	66 - 117	
Dimethyl phthalate	3.33	3.04	91	68 - 112	
Di-n-butyl phthalate	3.33	3.12	94	67 - 119	
Di-n-octyl phthalate	3.33	3.63	109	57 - 138	
Fluoranthene	3.33	3.17	95	64 - 114	
Fluorene	3.33	3.06	92	66 - 110	
Hexachlorobenzene	3.33	3.07	92	57 - 128	
Hexachlorobutadiene	3.33	3.19	96	60 - 108	
Hexachlorocyclopentadiene	3.33	2.58	77	50 - 129	
Hexachloroethane	3.33	2.66	80	63 - 99	
Indeno[1,2,3-cd]pyrene	3.33	3.23	97	53 - 137	
Isophorone	3.33	2.75	82	68 - 111	
Naphthalene	3.33	2.76	83	65 - 102	
Nitrobenzene	3.33	2.79	84	66 - 108	
N-Nitrosodi-n-propylamine	3.33	2.70	81	63 - 117	
N-Nitrosodiphenylamine	3.33	2.91	87	65 - 114	
Pentachlorophenol	6.67	5.74	86	56 - 116	
Phenanthrene	3.33	3.00	90	68 - 111	
Phenol	3.33	2.58	77	58 - 103	
Pyrene	3.33	3.04	91	64 - 121	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	110 X	10 - 103
2-Fluorobiphenyl	88	38 - 95
2-Fluorophenol (Surr)	79	25 - 92
Nitrobenzene-d5 (Surr)	84	37 - 94
Phenol-d5 (Surr)	80	32 - 91
Terphenyl-d14 (Surr)	90	24 - 109



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample - Batch: 460-521793

**Method: 8270D**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-521793/3-A	Analysis Batch:	460-522029	Instrument ID:	CBNAMS12
Client Matrix:	Solid	Prep Batch:	460-521793	Lab File ID:	L2079225.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/24/2018 0814	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/23/2018 1044			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Atrazine	6.67	6.97	105	62 - 137	
Benzaldehyde	6.67	5.30	80	52 - 113	
Caprolactam	6.67	6.66	100	53 - 148	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	93	10 - 103
2-Fluorobiphenyl	87	38 - 95
2-Fluorophenol (Surr)	77	25 - 92
Nitrobenzene-d5 (Surr)	83	37 - 94
Phenol-d5 (Surr)	68	32 - 91
Terphenyl-d14 (Surr)	89	24 - 109



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-521793

Method: 8270D  
Preparation: 3546

MS Lab Sample ID: 460-156230-A-2-K MS  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 0900  
Prep Date: 05/23/2018 1044  
Leach Date: N/A

Analysis Batch: 460-522029  
Prep Batch: 460-521793  
Leach Batch: N/A

Instrument ID: CBNAMS12  
Lab File ID: L2079227.d  
Initial Weight/Volume: 15.0123 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

MSD Lab Sample ID: 460-156230-A-2-L MSD  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 0922  
Prep Date: 05/23/2018 1044  
Leach Date: N/A

Analysis Batch: 460-522029  
Prep Batch: 460-521793  
Leach Batch: N/A

Instrument ID: CBNAMS12  
Lab File ID: L2079228.d  
Initial Weight/Volume: 15.0113 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1'-Biphenyl	58	61	64 - 108	5	30	F1	F1
1,2,4,5-Tetrachlorobenzene	58	63	57 - 112	7	30		
2,2'-oxybis[1-chloropropane]	44	48	39 - 122	9	30		
2,3,4,6-Tetrachlorophenol	68	71	60 - 114	4	30		
2,4,5-Trichlorophenol	60	64	60 - 106	7	30		
2,4,6-Trichlorophenol	65	70	62 - 110	8	30		
2,4-Dichlorophenol	62	68	61 - 103	10	30		
2,4-Dimethylphenol	55	61	63 - 101	10	30	F1	F1
2,4-Dinitrophenol	56	57	56 - 122	1	30		
2,4-Dinitrotoluene	67	69	66 - 122	3	30		
2,6-Dinitrotoluene	66	68	70 - 114	3	30	F1	F1
2-Chloronaphthalene	57	61	63 - 107	6	30	F1	F1
2-Chlorophenol	53	57	62 - 97	7	30	F1	F1
2-Methylnaphthalene	56	62	65 - 104	10	30	F1	F1
2-Methylphenol	52	57	61 - 103	7	30	F1	F1
2-Nitroaniline	61	62	57 - 114	3	30		
2-Nitrophenol	57	63	65 - 104	10	30	F1	F1
3,3'-Dichlorobenzidine	4	4	18 - 88	17	30	J F1	F1
3-Nitroaniline	19	23	30 - 94	17	30	F1	F1
4,6-Dinitro-2-methylphenol	60	62	67 - 120	4	30	F1	F1
4-Bromophenyl phenyl ether	64	69	59 - 122	7	30		
4-Chloro-3-methylphenol	64	68	62 - 111	6	30		
4-Chloroaniline	18	23	18 - 94	25	30		
4-Chlorophenyl phenyl ether	64	68	66 - 110	7	30	F1	
4-Methylphenol	46	54	61 - 105	16	30	F1	F1
4-Nitroaniline	16	19	49 - 118	20	30	F1	F1
4-Nitrophenol	60	65	43 - 141	8	30		
Acenaphthene	51	55	62 - 108	7	30	F1	F1
Acenaphthylene	58	61	67 - 107	6	30	F1	F1
Acetophenone	51	57	60 - 109	11	30	F1	F1
Anthracene	60	65	69 - 111	9	30	F1	F1
Atrazine	69	73	62 - 137	6	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-521793

Method: 8270D  
Preparation: 3546

MS Lab Sample ID: 460-156230-A-2-K MS  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 0900  
Prep Date: 05/23/2018 1044  
Leach Date: N/A

Analysis Batch: 460-522029  
Prep Batch: 460-521793  
Leach Batch: N/A

Instrument ID: CBNAMS12  
Lab File ID: L2079227.d  
Initial Weight/Volume: 15.0123 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

MSD Lab Sample ID: 460-156230-A-2-L MSD  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 0922  
Prep Date: 05/23/2018 1044  
Leach Date: N/A

Analysis Batch: 460-522029  
Prep Batch: 460-521793  
Leach Batch: N/A

Instrument ID: CBNAMS12  
Lab File ID: L2079228.d  
Initial Weight/Volume: 15.0113 g  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzaldehyde	50	54	52 - 113	8	30	F1	
Benzo[a]anthracene	61	63	68 - 110	4	30	F1	F1
Benzo[a]pyrene	62	66	72 - 115	6	30	F1	F1
Benzo[b]fluoranthene	68	73	69 - 119	8	30	F1	
Benzo[g,h,i]perylene	59	63	54 - 128	6	30		
Benzo[k]fluoranthene	64	66	70 - 115	2	30	F1	F1
Bis(2-chloroethoxy)methane	52	57	65 - 106	9	30	F1	F1
Bis(2-chloroethyl)ether	49	52	64 - 105	7	30	F1	F1
Bis(2-ethylhexyl) phthalate	68	72	63 - 125	6	30		
Butyl benzyl phthalate	68	72	65 - 125	6	30		
Caprolactam	58	68	53 - 148	16	30		
Carbazole	57	61	66 - 115	6	30	F1	F1
Chrysene	62	65	70 - 111	6	30	F1	F1
Dibenz(a,h)anthracene	63	68	60 - 130	7	30		
Dibenzofuran	61	63	67 - 107	4	30	F1	F1
Diethyl phthalate	64	67	66 - 117	4	30	F1	
Dimethyl phthalate	62	66	68 - 112	6	30	F1	F1
Di-n-butyl phthalate	64	69	67 - 119	7	30	F1	
Di-n-octyl phthalate	75	78	57 - 138	4	30		
Fluoranthene	63	66	64 - 114	5	30	F1	
Fluorene	62	65	66 - 110	6	30	F1	F1
Hexachlorobenzene	63	69	57 - 128	8	30		
Hexachlorobutadiene	60	66	60 - 108	10	30		
Hexachlorocyclopentadiene	32	26	50 - 129	19	30	F1	F1
Hexachloroethane	46	49	63 - 99	5	30	F1	F1
Indeno[1,2,3-cd]pyrene	62	81	53 - 137	26	30		
Isophorone	55	59	68 - 111	8	30	F1	F1
Naphthalene	54	59	65 - 102	9	30	F1	F1
Nitrobenzene	51	58	66 - 108	11	30	F1	F1
N-Nitrosodi-n-propylamine	52	57	63 - 117	10	30	F1	F1
N-Nitrosodiphenylamine	60	66	65 - 114	9	30	F1	
Pentachlorophenol	65	72	56 - 116	9	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-521793

Method: 8270D  
Preparation: 3546

MS Lab Sample ID: 460-156230-A-2-K MS	Analysis Batch: 460-522029	Instrument ID: CBNAMS12
Client Matrix: Solid	Prep Batch: 460-521793	Lab File ID: L2079227.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0123 g
Analysis Date: 05/24/2018 0900		Final Weight/Volume: 1 mL
Prep Date: 05/23/2018 1044		Injection Volume: 1 uL
Leach Date: N/A		

MSD Lab Sample ID: 460-156230-A-2-L MSD	Analysis Batch: 460-522029	Instrument ID: CBNAMS12
Client Matrix: Solid	Prep Batch: 460-521793	Lab File ID: L2079228.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0113 g
Analysis Date: 05/24/2018 0922		Final Weight/Volume: 1 mL
Prep Date: 05/23/2018 1044		Injection Volume: 1 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Phenanthrene	61	66	68 - 111	8	30	F1	F1
Phenol	46	51	58 - 103	12	30	F1	F1
Pyrene	65	68	64 - 121	4	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
2,4,6-Tribromophenol (Surr)	74		80	10 - 103			
2-Fluorobiphenyl	59		63	38 - 95			
2-Fluorophenol (Surr)	50		57	25 - 92			
Nitrobenzene-d5 (Surr)	53		60	37 - 94			
Phenol-d5 (Surr)	49		58	32 - 91			
Terphenyl-d14 (Surr)	63		68	24 - 109			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-521701

### Method: 8081B

### Preparation: 3510C

Lab Sample ID: MB 460-521701/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/25/2018 0807  
 Prep Date: 05/23/2018 0711  
 Leach Date: N/A

Analysis Batch: 460-522466  
 Prep Batch: 460-521701  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC4  
 Lab File ID: P4077941.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	88	10 - 150
Tetrachloro-m-xylene	82	12 - 136

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	87	10 - 150
Tetrachloro-m-xylene	75	12 - 136



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-521701

Method: 8081B

Preparation: 3510C

LCS Lab Sample ID: LCS 460-521701/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/25/2018 0819  
 Prep Date: 05/23/2018 0711  
 Leach Date: N/A

Analysis Batch: 460-522466  
 Prep Batch: 460-521701  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC4  
 Lab File ID: P4077942.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 460-521701/3-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/25/2018 0831  
 Prep Date: 05/23/2018 0711  
 Leach Date: N/A

Analysis Batch: 460-522466  
 Prep Batch: 460-521701  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC4  
 Lab File ID: P4077943.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
4,4'-DDD	93	87	58 - 136	7	30		
4,4'-DDE	95	92	56 - 132	3	30		
4,4'-DDT	96	96	56 - 134	1	30		
Aldrin	86	92	52 - 125	7	30		
alpha-BHC	86	92	57 - 133	6	30		
beta-BHC	89	94	61 - 134	6	30		
delta-BHC	92	97	56 - 130	6	30		
Dieldrin	94	96	61 - 135	3	30		
Endosulfan I	98	101	61 - 134	3	30		
Endosulfan II	100	102	61 - 133	1	30		
Endosulfan sulfate	98	92	59 - 133	6	30		
Endrin	98	100	60 - 135	2	30		
Endrin aldehyde	79	99	59 - 130	22	30		
Endrin ketone	91	92	60 - 137	1	30		
gamma-BHC (Lindane)	86	91	59 - 131	6	30		
Heptachlor	85	90	54 - 126	6	30		
Heptachlor epoxide	89	94	60 - 130	5	30		
Methoxychlor	88	81	57 - 133	8	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
DCB Decachlorobiphenyl	87		93		10 - 150		
Tetrachloro-m-xylene	77		78		12 - 136		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-521701

Method: 8081B

Preparation: 3510C

LCS Lab Sample ID: LCS 460-521701/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/25/2018 0819  
 Prep Date: 05/23/2018 0711  
 Leach Date: N/A

Analysis Batch: 460-522466  
 Prep Batch: 460-521701  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC4  
 Lab File ID: P4077942.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: SECONDARY

LCSD Lab Sample ID: LCSD 460-521701/3-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/25/2018 0831  
 Prep Date: 05/23/2018 0711  
 Leach Date: N/A

Analysis Batch: 460-522466  
 Prep Batch: 460-521701  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC4  
 Lab File ID: P4077943.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
4,4'-DDD	85	87	58 - 136	2	30		
4,4'-DDE	85	89	56 - 132	4	30		
4,4'-DDT	87	87	56 - 134	1	30		
Aldrin	82	80	52 - 125	2	30		
alpha-BHC	84	83	57 - 133	1	30		
beta-BHC	87	86	61 - 134	1	30		
delta-BHC	87	84	56 - 130	3	30		
Dieldrin	92	91	61 - 135	1	30		
Endosulfan I	90	89	61 - 134	0	30		
Endosulfan II	94	95	61 - 133	0	30		
Endosulfan sulfate	85	86	59 - 133	1	30		
Endrin	93	93	60 - 135	0	30		
Endrin aldehyde	75	86	59 - 130	14	30		
Endrin ketone	87	92	60 - 137	6	30		
gamma-BHC (Lindane)	82	81	59 - 131	1	30		
Heptachlor	83	81	54 - 126	2	30		
Heptachlor epoxide	85	86	60 - 130	1	30		
Methoxychlor	67	73	57 - 133	8	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
DCB Decachlorobiphenyl	86		91		10 - 150		
Tetrachloro-m-xylene	76		75		12 - 136		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-521834

### Method: 8081B Preparation: 3546

Lab Sample ID: MB 460-521834/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 0914  
Prep Date: 05/23/2018 1318  
Leach Date: N/A

Analysis Batch: 460-522119  
Prep Batch: 460-521834  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC5  
Lab File ID: 5F921216.D  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.0067	U	0.0011	0.0067
4,4'-DDE	0.0067	U	0.00079	0.0067
4,4'-DDT	0.0067	U	0.0012	0.0067
Aldrin	0.0067	U	0.0010	0.0067
alpha-BHC	0.0020	U	0.00068	0.0020
beta-BHC	0.0020	U	0.00075	0.0020
Chlordane (technical)	0.067	U	0.016	0.067
delta-BHC	0.0020	U	0.00041	0.0020
Dieldrin	0.0020	U	0.00087	0.0020
Endosulfan I	0.0067	U	0.0010	0.0067
Endosulfan II	0.0067	U	0.0017	0.0067
Endosulfan sulfate	0.0067	U	0.00084	0.0067
Endrin	0.0067	U	0.00096	0.0067
Endrin aldehyde	0.0067	U	0.0016	0.0067
Endrin ketone	0.0067	U	0.0013	0.0067
gamma-BHC (Lindane)	0.0020	U	0.00062	0.0020
Heptachlor	0.0067	U	0.00079	0.0067
Heptachlor epoxide	0.0067	U	0.0010	0.0067
Methoxychlor	0.0067	U	0.0015	0.0067
Toxaphene	0.067	U	0.024	0.067

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	77	69 - 150
Tetrachloro-m-xylene	79	74 - 150

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	74	69 - 150
Tetrachloro-m-xylene	75	74 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample - Batch: 460-521834

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-521834/2-A	Analysis Batch:	460-522119	Instrument ID:	CPESTGC5
Client Matrix:	Solid	Prep Batch:	460-521834	Lab File ID:	5F921221.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/24/2018 1220	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/23/2018 1318			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.130	97	67 - 130	
4,4'-DDE	0.133	0.121	90	70 - 127	
4,4'-DDT	0.133	0.125	94	70 - 122	
Aldrin	0.133	0.118	88	66 - 137	
alpha-BHC	0.133	0.124	93	65 - 142	
beta-BHC	0.133	0.120	90	70 - 132	
delta-BHC	0.133	0.126	95	65 - 136	
Dieldrin	0.133	0.119	89	70 - 134	
Endosulfan I	0.133	0.116	87	70 - 136	
Endosulfan II	0.133	0.118	88	72 - 127	
Endosulfan sulfate	0.133	0.112	84	71 - 128	
Endrin	0.133	0.116	87	74 - 129	
Endrin aldehyde	0.133	0.123	92	71 - 129	
Endrin ketone	0.133	0.123	92	68 - 135	
gamma-BHC (Lindane)	0.133	0.121	90	68 - 136	
Heptachlor	0.133	0.116	87	68 - 132	
Heptachlor epoxide	0.133	0.116	87	72 - 131	
Methoxychlor	0.133	0.115	86	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	74		69 - 150		
Tetrachloro-m-xylene	82		74 - 150		

### Lab Control Sample - Batch: 460-521834

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-521834/2-A	Analysis Batch:	460-522119	Instrument ID:	CPESTGC5
Client Matrix:	Solid	Prep Batch:	460-521834	Lab File ID:	5F921221.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/24/2018 1220	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/23/2018 1318			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.122	91	67 - 130	
4,4'-DDE	0.133	0.112	84	70 - 127	
4,4'-DDT	0.133	0.112	84	70 - 122	
Aldrin	0.133	0.112	84	66 - 137	
alpha-BHC	0.133	0.119	89	65 - 142	
beta-BHC	0.133	0.116	87	70 - 132	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample - Batch: 460-521834

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-521834/2-A	Analysis Batch:	460-522119	Instrument ID:	CPESTGC5
Client Matrix:	Solid	Prep Batch:	460-521834	Lab File ID:	5F921221.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/24/2018 1220	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/23/2018 1318			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
delta-BHC	0.133	0.124	93	65 - 136	
Dieldrin	0.133	0.116	87	70 - 134	
Endosulfan I	0.133	0.112	84	70 - 136	
Endosulfan II	0.133	0.114	86	72 - 127	
Endosulfan sulfate	0.133	0.102	77	71 - 128	
Endrin	0.133	0.112	84	74 - 129	
Endrin aldehyde	0.133	0.115	86	71 - 129	
Endrin ketone	0.133	0.118	88	68 - 135	
gamma-BHC (Lindane)	0.133	0.118	88	68 - 136	
Heptachlor	0.133	0.111	83	68 - 132	
Heptachlor epoxide	0.133	0.113	85	72 - 131	
Methoxychlor	0.133	0.106	79	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	74		69 - 150		
Tetrachloro-m-xylene	75		74 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-521834

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 1018  
Prep Date: 05/23/2018 1318  
Leach Date: N/A

Analysis Batch: 460-522463  
Prep Batch: 460-521834  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921253.D  
Initial Weight/Volume: 15.0159 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

MSD Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 1031  
Prep Date: 05/23/2018 1318  
Leach Date: N/A

Analysis Batch: 460-522463  
Prep Batch: 460-521834  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921254.D  
Initial Weight/Volume: 15.0214 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	69	72	67 - 130	4	30		
4,4'-DDE	66	70	70 - 127	6	30	F1	
4,4'-DDT	69	69	70 - 122	0	30	F1	F1
Aldrin	66	68	66 - 137	3	30		
alpha-BHC	72	74	65 - 142	3	30		
beta-BHC	67	71	70 - 132	6	30	F1	
delta-BHC	74	75	65 - 136	2	30		
Dieldrin	62	63	70 - 134	2	30	F1	F1
Endosulfan I	61	63	70 - 136	3	30	F1	F1
Endosulfan II	60	61	72 - 127	2	30	F1	F1
Endosulfan sulfate	63	65	71 - 128	3	30	F1	F1
Endrin	64	67	74 - 129	4	30	F1	F1
Endrin aldehyde	56	59	71 - 129	5	30	F1	F1
Endrin ketone	67	70	68 - 135	4	30	F1	
gamma-BHC (Lindane)	69	70	68 - 136	1	30		
Heptachlor	69	70	68 - 132	1	30		
Heptachlor epoxide	63	64	72 - 131	3	30	F1	F1
Methoxychlor	66	71	63 - 135	8	30		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
DCB Decachlorobiphenyl	62	X	54	X	69 - 150		
Tetrachloro-m-xylene	78		77		74 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-521834

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 1018  
Prep Date: 05/23/2018 1318  
Leach Date: N/A

Analysis Batch: 460-522463  
Prep Batch: 460-521834  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921253.D  
Initial Weight/Volume: 15.0159 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

MSD Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 1031  
Prep Date: 05/23/2018 1318  
Leach Date: N/A

Analysis Batch: 460-522463  
Prep Batch: 460-521834  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921254.D  
Initial Weight/Volume: 15.0214 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	60	62	67 - 130	4	30	F1	F1
4,4'-DDE	57	59	70 - 127	5	30	F1	F1
4,4'-DDT	55	57	70 - 122	3	30	F1	F1
Aldrin	60	64	66 - 137	6	30	F1	F1
alpha-BHC	69	73	65 - 142	5	30		
beta-BHC	67	64	70 - 132	5	30	F1	F1
delta-BHC	72	72	65 - 136	0	30		
Dieldrin	56	57	70 - 134	3	30	F1	F1
Endosulfan I	59	63	70 - 136	6	30	F1	F1
Endosulfan II	54	56	72 - 127	3	30	F1	F1
Endosulfan sulfate	57	60	71 - 128	4	30	F1	F1
Endrin	59	61	74 - 129	3	30	F1	F1
Endrin aldehyde	51	54	71 - 129	5	30	F1	F1
Endrin ketone	62	64	68 - 135	3	30	F1	F1
gamma-BHC (Lindane)	67	70	68 - 136	4	30	F1	
Heptachlor	63	67	68 - 132	5	30	F1	F1
Heptachlor epoxide	57	61	72 - 131	6	30	F1	F1
Methoxychlor	56	59	63 - 135	5	30	F1	F1
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
DCB Decachlorobiphenyl	44	X	47	X	69 - 150		
Tetrachloro-m-xylene	75		75		74 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-521703

### Method: 8082A Preparation: 3510C

Lab Sample ID: MB 460-521703/1-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/24/2018 1333  
Prep Date: 05/23/2018 0716  
Leach Date: N/A

Analysis Batch: 460-522090  
Prep Batch: 460-521703  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CPESTGC7  
Lab File ID: 7R154060.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	0.40	U	0.10	0.40
Aroclor 1221	0.40	U	0.10	0.40
Aroclor 1232	0.40	U	0.10	0.40
Aroclor 1242	0.40	U	0.10	0.40
Aroclor 1248	0.40	U	0.10	0.40
Aroclor 1254	0.40	U	0.099	0.40
Aroclor 1260	0.40	U	0.099	0.40
Aroclor-1262	0.40	U	0.099	0.40
Aroclor 1268	0.40	U	0.099	0.40
Polychlorinated biphenyls, Total	0.40	U	0.10	0.40

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	83	10 - 150
Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	83	10 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-521703

Method: 8082A

Preparation: 3510C

LCS Lab Sample ID: LCS 460-521703/2-A	Analysis Batch: 460-522090	Instrument ID: CPESTGC7
Client Matrix: Water	Prep Batch: 460-521703	Lab File ID: 7R154061.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/24/2018 1356	Units: ug/L	Final Weight/Volume: 1 mL
Prep Date: 05/23/2018 0716		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 460-521703/3-A	Analysis Batch: 460-522090	Instrument ID: CPESTGC7
Client Matrix: Water	Prep Batch: 460-521703	Lab File ID: 7R154062.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/24/2018 1419	Units: ug/L	Final Weight/Volume: 1 mL
Prep Date: 05/23/2018 0716		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Aroclor 1016	104	99	78 - 150	5	30		
Aroclor 1260	106	98	80 - 150	8	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
DCB Decachlorobiphenyl	98		93		10 - 150		

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-521703

Method: 8082A

Preparation: 3510C

LCS Lab Sample ID: LCS 460-521703/2-A	Analysis Batch: 460-522090	Instrument ID: CPESTGC7
Client Matrix: Water	Prep Batch: 460-521703	Lab File ID: 7R154061.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/24/2018 1356	Units: ug/L	Final Weight/Volume: 1 mL
Prep Date: 05/23/2018 0716		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

LCSD Lab Sample ID: LCSD 460-521703/3-A	Analysis Batch: 460-522090	Instrument ID: CPESTGC7
Client Matrix: Water	Prep Batch: 460-521703	Lab File ID: 7R154062.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/24/2018 1419	Units: ug/L	Final Weight/Volume: 1 mL
Prep Date: 05/23/2018 0716		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Aroclor 1016	89	81	78 - 150	9	30		
Aroclor 1260	90	83	80 - 150	8	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
DCB Decachlorobiphenyl	86		79		10 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-521832

### Method: 8082A Preparation: 3546

Lab Sample ID: MB 460-521832/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 1104  
Prep Date: 05/23/2018 1314  
Leach Date: N/A

Analysis Batch: 460-522088  
Prep Batch: 460-521832  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC11  
Lab File ID: T144252.D  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	0.067	U	0.0089	0.067
Aroclor 1221	0.067	U	0.0089	0.067
Aroclor 1232	0.067	U	0.0089	0.067
Aroclor 1242	0.067	U	0.0089	0.067
Aroclor 1248	0.067	U	0.0089	0.067
Aroclor 1254	0.067	U	0.0092	0.067
Aroclor 1260	0.067	U	0.0092	0.067
Aroclor-1262	0.067	U	0.0092	0.067
Aroclor 1268	0.067	U	0.0092	0.067
Polychlorinated biphenyls, Total	0.067	U	0.0092	0.067
Surrogate	% Rec		Acceptance Limits	
DCB Decachlorobiphenyl	100		53 - 150	
Surrogate	% Rec		Acceptance Limits	
DCB Decachlorobiphenyl	96		53 - 150	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample - Batch: 460-521832

**Method: 8082A**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-521832/2-A	Analysis Batch:	460-522088	Instrument ID:	CPESTGC11
Client Matrix:	Solid	Prep Batch:	460-521832	Lab File ID:	T144254.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/24/2018 1135	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/23/2018 1314			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	0.333	0.311	93	76 - 146	
Aroclor 1260	0.333	0.340	102	74 - 148	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	102		53 - 150		

### Lab Control Sample - Batch: 460-521832

**Method: 8082A**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-521832/2-A	Analysis Batch:	460-522088	Instrument ID:	CPESTGC11
Client Matrix:	Solid	Prep Batch:	460-521832	Lab File ID:	T144254.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/24/2018 1135	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/23/2018 1314			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	0.333	0.279	84	76 - 146	
Aroclor 1260	0.333	0.304	91	74 - 148	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	94		53 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-521832

Method: 8082A  
Preparation: 3546

MS Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 1207  
Prep Date: 05/23/2018 1314  
Leach Date: N/A

Analysis Batch: 460-522088  
Prep Batch: 460-521832  
Leach Batch: N/A

Instrument ID: CPESTGC11  
Lab File ID: T144256.D  
Initial Weight/Volume: 15.0184 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

MSD Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 1223  
Prep Date: 05/23/2018 1314  
Leach Date: N/A

Analysis Batch: 460-522088  
Prep Batch: 460-521832  
Leach Batch: N/A

Instrument ID: CPESTGC11  
Lab File ID: T144257.D  
Initial Weight/Volume: 15.0169 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aroclor 1016	83	96	76 - 146	14	30		
Aroclor 1260	76	88	74 - 148	14	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	82		90	53 - 150			

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-521832

Method: 8082A  
Preparation: 3546

MS Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 1207  
Prep Date: 05/23/2018 1314  
Leach Date: N/A

Analysis Batch: 460-522088  
Prep Batch: 460-521832  
Leach Batch: N/A

Instrument ID: CPESTGC11  
Lab File ID: T144256.D  
Initial Weight/Volume: 15.0184 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

MSD Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 1223  
Prep Date: 05/23/2018 1314  
Leach Date: N/A

Analysis Batch: 460-522088  
Prep Batch: 460-521832  
Leach Batch: N/A

Instrument ID: CPESTGC11  
Lab File ID: T144257.D  
Initial Weight/Volume: 15.0169 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aroclor 1016	82	92	76 - 146	11	30		
Aroclor 1260	74	85	74 - 148	14	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	72		84	53 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-522026

### Method: 8151A

### Preparation: 8151A

Lab Sample ID: MB 460-522026/1-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/25/2018 0723  
Prep Date: 05/24/2018 0417  
Leach Date: N/A

Analysis Batch: 460-522473  
Prep Batch: 460-522026  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CPESTGC1  
Lab File ID: 1F003405.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 3 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	100	54 - 150

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	97	54 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522026

Method: 8151A

Preparation: 8151A

LCS Lab Sample ID: LCS 460-522026/2-A	Analysis Batch: 460-522473	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-522026	Lab File ID: 1F003406.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/25/2018 0739	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/24/2018 0417		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 460-522026/3-A	Analysis Batch: 460-522473	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-522026	Lab File ID: 1F003407.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/25/2018 0756	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/24/2018 0417		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
2,4,5-T	118	121	68 - 139	3	30		
2,4-D	112	121	48 - 119	8	30		*
Silvex (2,4,5-TP)	133	134	76 - 150	0	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
2,4-Dichlorophenylacetic acid	116		116	54 - 150			

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522026

Method: 8151A

Preparation: 8151A

LCS Lab Sample ID: LCS 460-522026/2-A	Analysis Batch: 460-522473	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-522026	Lab File ID: 1F003406.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/25/2018 0739	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/24/2018 0417		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

LCSD Lab Sample ID: LCSD 460-522026/3-A	Analysis Batch: 460-522473	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-522026	Lab File ID: 1F003407.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/25/2018 0756	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/24/2018 0417		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
2,4,5-T	115	119	68 - 139	4	30		
2,4-D	84	87	48 - 119	3	30		
Silvex (2,4,5-TP)	118	123	76 - 150	5	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
2,4-Dichlorophenylacetic acid	107		105	54 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-522027

### Method: 8151A

### Preparation: 8151A

Lab Sample ID: MB 460-522027/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 0726  
Prep Date: 05/24/2018 0430  
Leach Date: N/A

Analysis Batch: 460-522453  
Prep Batch: 460-522027  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC3  
Lab File ID: ZR151442.D  
Initial Weight/Volume: 30.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	0.033	U	0.0071	0.033
2,4-D	0.033	U	0.012	0.033
Silvex (2,4,5-TP)	0.033	U	0.0035	0.033

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	149	80 - 150

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	142	80 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample - Batch: 460-522027

Method: 8151A

Preparation: 8151A

Lab Sample ID:	LCS 460-522027/2-A	Analysis Batch:	460-522453	Instrument ID:	CPESTGC3
Client Matrix:	Solid	Prep Batch:	460-522027	Lab File ID:	ZR151443.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0000 g
Analysis Date:	05/25/2018 0740	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/24/2018 0430			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	0.0833	0.0992	119	71 - 141	
2,4-D	0.333	0.337	101	47 - 140	E
Silvex (2,4,5-TP)	0.0833	0.111	133	80 - 150	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	147	80 - 150

### Lab Control Sample - Batch: 460-522027

Method: 8151A

Preparation: 8151A

Lab Sample ID:	LCS 460-522027/2-A	Analysis Batch:	460-522453	Instrument ID:	CPESTGC3
Client Matrix:	Solid	Prep Batch:	460-522027	Lab File ID:	ZR151443.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0000 g
Analysis Date:	05/25/2018 0740	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/24/2018 0430			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	0.0833	0.0988	119	71 - 141	
2,4-D	0.333	0.330	99	47 - 140	
Silvex (2,4,5-TP)	0.0833	0.107	128	80 - 150	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	143	80 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-522027

Method: 8151A  
Preparation: 8151A

MS Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 0755  
Prep Date: 05/24/2018 0430  
Leach Date: N/A

Analysis Batch: 460-522453  
Prep Batch: 460-522027  
Leach Batch: N/A

Instrument ID: CPESTGC3  
Lab File ID: ZR151444.D  
Initial Weight/Volume: 30.0385 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

MSD Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 0810  
Prep Date: 05/24/2018 0430  
Leach Date: N/A

Analysis Batch: 460-522453  
Prep Batch: 460-522027  
Leach Batch: N/A

Instrument ID: CPESTGC3  
Lab File ID: ZR151445.D  
Initial Weight/Volume: 30.0416 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
2,4,5-T	104	97	71 - 141	8	30		
2,4-D	86	81	47 - 140	7	30		
Silvex (2,4,5-TP)	115	109	80 - 150	5	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
2,4-Dichlorophenylacetic acid	131		131	80 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-522027

Method: 8151A  
Preparation: 8151A

MS Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 0755  
Prep Date: 05/24/2018 0430  
Leach Date: N/A

Analysis Batch: 460-522453  
Prep Batch: 460-522027  
Leach Batch: N/A

Instrument ID: CPESTGC3  
Lab File ID: ZR151444.D  
Initial Weight/Volume: 30.0385 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

MSD Lab Sample ID: 460-156630-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 0810  
Prep Date: 05/24/2018 0430  
Leach Date: N/A

Analysis Batch: 460-522453  
Prep Batch: 460-522027  
Leach Batch: N/A

Instrument ID: CPESTGC3  
Lab File ID: ZR151445.D  
Initial Weight/Volume: 30.0416 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
2,4,5-T	104	88	71 - 141	17	30		
2,4-D	85	79	47 - 140	7	30		
Silvex (2,4,5-TP)	104	97	80 - 150	7	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
2,4-Dichlorophenylacetic acid	130		120	80 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-522941

### Method: 6010C

### Preparation: 3050B

Lab Sample ID: MB 460-522941/1-A ^2  
Client Matrix: Solid  
Dilution: 2.0  
Analysis Date: 05/27/2018 1427  
Prep Date: 05/27/2018 0836  
Leach Date: N/A

Analysis Batch: 460-522986  
Prep Batch: 460-522941  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP5  
Lab File ID: 522940D1.asc  
Initial Weight/Volume: 1.00 g  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	4.1	20.0
Antimony	2.0	U	0.24	2.0
Arsenic	1.5	U	0.37	1.5
Barium	20.0	U	1.6	20.0
Beryllium	0.20	U	0.023	0.20
Cadmium	0.40	U	0.060	0.40
Calcium	500	U	51.0	500
Chromium	1.0	U	0.28	1.0
Cobalt	5.0	U	0.57	5.0
Copper	2.5	U	0.57	2.5
Iron	15.0	U	2.7	15.0
Lead	1.0	U	0.30	1.0
Magnesium	500	U	38.6	500
Manganese	1.5	U	0.16	1.5
Nickel	4.0	U	0.38	4.0
Potassium	500	U	26.6	500
Selenium	2.0	U	0.61	2.0
Silver	1.0	U	0.15	1.0
Sodium	500	U	38.5	500
Thallium	2.0	U	0.59	2.0
Vanadium	5.0	U	0.60	5.0
Zinc	3.0	U	0.26	3.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### LCS-Certified Reference Material - Batch: 460-522941

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-522941/2-~~A~~ Analysis Batch: 460-522986  
 Client Matrix: Solid Prep Batch: 460-522941  
 Dilution: 4.0 Leach Batch: N/A  
 Analysis Date: 05/27/2018 1431 Units: mg/Kg  
 Prep Date: 05/27/2018 0836  
 Leach Date: N/A

Instrument ID: ICP5  
 Lab File ID: 522940D1.asc  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	8720	7256	83.2	51.7 - 147.9	
Antimony	94.1	154.9	164.7	0.1 - 206.2	
Arsenic	58.5	54.36	92.9	82.6 - 117.4	
Barium	183	186.2	101.7	82.0 - 118.6	
Beryllium	59.7	56.64	94.9	82.6 - 117.6	
Cadmium	249	242.2	97.3	82.3 - 118.1	
Calcium	4600	4260	92.6	81.1 - 118.9	
Chromium	64.9	66.74	102.8	81.4 - 118.6	
Cobalt	45.0	45.42	100.9	83.6 - 116.4	
Copper	113	105.9	93.8	82.7 - 116.8	
Iron	13600	16400	120.6	58.8 - 141.2	
Lead	161	169.1	105.1	81.4 - 118.6	
Magnesium	2310	2056	89.0	75.8 - 124.2	
Manganese	219	221.8	101.3	81.7 - 118.7	
Nickel	147	152.1	103.5	82.3 - 118.4	
Potassium	2030	1686	83.1	70.0 - 130.0	
Selenium	145	136.7	94.3	77.9 - 121.4	
Silver	51.0	46.20	90.6	78.6 - 121.4	
Sodium	2430	2170	89.3	73.3 - 126.3	
Thallium	188	204.2	108.6	79.8 - 119.7	
Vanadium	125	127.8	102.2	78.3 - 121.6	
Zinc	121	122.5	101.3	80.2 - 119.0	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Matrix Spike - Batch: 460-522941

Method: 6010C

Preparation: 3050B

Lab Sample ID:	460-156630-2	Analysis Batch:	460-522986	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-522941	Lab File ID:	522940D1.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/27/2018 1438	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/27/2018 0836				
Leach Date:	N/A				

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	3580		215	3564	-8	75 - 125	4
Antimony	4.3	U	53.6	52.30	97	75 - 125	
Arsenic	2.4	J	215	209.5	96	75 - 125	
Barium	26.0	J	215	249.8	104	75 - 125	
Beryllium	0.22	J	5.36	5.62	101	75 - 125	
Cadmium	0.86	U	5.36	5.53	103	75 - 125	
Calcium	7780		2150	11270	163	75 - 125	F1
Chromium	7.0		21.5	28.73	101	75 - 125	
Cobalt	2.0	J	53.6	59.66	107	75 - 125	
Copper	9.0		26.8	33.90	93	75 - 125	
Iron	5860		107	5195	-620	75 - 125	4
Lead	27.6		53.6	92.42	121	75 - 125	
Magnesium	1250		2150	3481	104	75 - 125	
Manganese	135		53.6	127.2	-15	75 - 125	F1
Nickel	4.7	J	53.6	60.77	105	75 - 125	
Potassium	269	J	2150	2268	93	75 - 125	
Selenium	4.3	U	215	211.2	98	75 - 125	
Silver	2.1	U	5.36	4.99	93	75 - 125	
Sodium	1070	U	2150	2132	99	75 - 125	
Thallium	4.3	U	215	240.1	112	75 - 125	
Vanadium	10.4	J	53.6	64.46	101	75 - 125	
Zinc	31.7		53.6	85.04	99	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Duplicate - Batch: 460-522941**

**Method: 6010C**  
**Preparation: 3050B**

Lab Sample ID: 460-156630-2  
Client Matrix: Solid  
Dilution: 4.0  
Analysis Date: 05/27/2018 1442  
Prep Date: 05/27/2018 0836  
Leach Date: N/A

Analysis Batch: 460-522986  
Prep Batch: 460-522941  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP5  
Lab File ID: 522940D1.asc  
Initial Weight/Volume: 1.00 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	3580		3266	9	20	
Antimony	4.3	U	4.3	NC	20	U
Arsenic	2.4	J	2.01	19	20	J
Barium	26.0	J	19.33	29	20	J F5
Beryllium	0.22	J	0.184	18	20	J
Cadmium	0.86	U	0.86	NC	20	U
Calcium	7780		6858	13	20	
Chromium	7.0		6.48	7	20	
Cobalt	2.0	J	1.80	12	20	J
Copper	9.0		7.90	13	20	
Iron	5860		5382	9	20	
Lead	27.6		23.69	15	20	
Magnesium	1250		999.1	22	20	J F5
Manganese	135		76.29	56	20	F3
Nickel	4.7	J	4.32	8	20	J
Potassium	269	J	273.6	2	20	J
Selenium	4.3	U	4.3	NC	20	U
Silver	2.1	U	2.1	NC	20	U
Sodium	1070	U	1070	NC	20	U
Thallium	4.3	U	4.3	NC	20	U
Vanadium	10.4	J	9.13	13	20	J
Zinc	31.7		29.57	7	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-522939

### Method: 6020A

### Preparation: 3010A

Lab Sample ID: MB 460-522939/1-A ^2  
Client Matrix: Water  
Dilution: 2.0  
Analysis Date: 05/27/2018 1617  
Prep Date: 05/27/2018 0835  
Leach Date: N/A

Analysis Batch: 460-523033  
Prep Batch: 460-522939  
Leach Batch: N/A  
Units: ug/L

Instrument ID: ICPMS2  
Lab File ID: 0216CCB.D  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	40.0	U	15.0	40.0
Antimony	2.0	U	0.62	2.0
Arsenic	2.0	U	0.77	2.0
Barium	4.0	U	1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Calcium	200	U	67.6	200
Chromium	4.0	U	1.3	4.0
Cobalt	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Iron	120	U	45.7	120
Lead	1.2	U	0.37	1.2
Magnesium	200	U	65.7	200
Manganese	8.0	U	2.7	8.0
Nickel	4.0	U	1.3	4.0
Potassium	200	U	64.9	200
Selenium	10.0	U	0.69	10.0
Silver	2.0	U	1.4	2.0
Sodium	200	U	75.7	200
Thallium	0.80	U	0.24	0.80
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Lab Control Sample - Batch: 460-522939

Method: 6020A

Preparation: 3010A

Lab Sample ID:	LCS 460-522939/2-A ^2	Analysis Batch:	460-523033	Instrument ID:	ICPMS2
Client Matrix:	Water	Prep Batch:	460-522939	Lab File ID:	022SMPL.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/27/2018 1620	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/27/2018 0835				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2500	2549	102	80 - 120	
Antimony	25.0	24.42	98	80 - 120	
Arsenic	50.0	49.85	100	80 - 120	
Barium	50.0	51.05	102	80 - 120	
Beryllium	25.0	25.62	102	80 - 120	
Cadmium	25.0	25.82	103	80 - 120	
Calcium	2500	2621	105	80 - 120	
Chromium	50.0	51.00	102	80 - 120	
Cobalt	25.0	25.12	100	80 - 120	
Copper	50.0	50.31	101	80 - 120	
Iron	2500	2608	104	80 - 120	
Lead	25.0	25.38	102	80 - 120	
Magnesium	2500	2487	99	80 - 120	
Manganese	250	255.3	102	80 - 120	
Nickel	50.0	50.69	101	80 - 120	
Potassium	2500	2532	101	80 - 120	
Selenium	50.0	50.88	102	80 - 120	
Silver	25.0	25.22	101	80 - 120	
Sodium	2500	2613	105	80 - 120	
Thallium	20.0	20.23	101	80 - 120	
Vanadium	50.0	49.05	98	80 - 120	
Zinc	250	243.8	98	80 - 120	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Matrix Spike - Batch: 460-522939

Method: 6020A

Preparation: 3010A

Lab Sample ID:	460-156156-E-2-C MS ^2	Analysis Batch:	460-523033	Instrument ID:	ICPMS2
Client Matrix:	Water	Prep Batch:	460-522939	Lab File ID:	024SMPL.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/27/2018 1627	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/27/2018 0835				
Leach Date:	N/A				

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	40.0	U	2500	2569	103	75 - 125	
Antimony	2.0	U	25.0	26.12	104	75 - 125	
Arsenic	2.0	U	50.0	50.39	101	75 - 125	
Barium	37.2		50.0	92.51	111	75 - 125	
Beryllium	0.80	U	25.0	27.01	108	75 - 125	
Cadmium	2.0	U	25.0	26.28	105	75 - 125	
Calcium	37000		2500	40360	133	75 - 125	4
Chromium	4.0	U	50.0	53.38	107	75 - 125	
Cobalt	4.0	U	25.0	25.43	102	75 - 125	
Copper	4.0	U	50.0	50.99	102	75 - 125	
Iron	120	U	2500	2666	107	75 - 125	
Lead	1.2	U	25.0	26.05	104	75 - 125	
Magnesium	24500		2500	27150	106	75 - 125	4
Manganese	8.0	U	250	261.4	105	75 - 125	
Nickel	4.0	U	50.0	49.69	99	75 - 125	
Potassium	2010		2500	4638	105	75 - 125	
Selenium	10.0	U	50.0	51.91	104	75 - 125	
Silver	2.0	U	25.0	26.12	104	75 - 125	
Sodium	15300		2500	17980	108	75 - 125	4
Thallium	0.80	U	20.0	21.08	105	75 - 125	
Vanadium	4.0	U	50.0	51.03	102	75 - 125	
Zinc	16.0	U	250	245.8	98	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Duplicate - Batch: 460-522939**

**Method: 6020A**

**Preparation: 3010A**

Lab Sample ID:	460-156156-A-2-B DU ^2	Analysis Batch:	460-523033	Instrument ID:	ICPMS2
Client Matrix:	Water	Prep Batch:	460-522939	Lab File ID:	025SMPL.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/27/2018 1630	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/27/2018 0835				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	40.0	U	40.0	NC	20	U
Antimony	2.0	U	2.0	NC	20	U
Arsenic	2.0	U	2.0	NC	20	U
Barium	37.2		35.99	3	20	
Beryllium	0.80	U	0.80	NC	20	U
Cadmium	2.0	U	2.0	NC	20	U
Calcium	37000		36330	2	20	
Chromium	4.0	U	4.0	NC	20	U
Cobalt	4.0	U	4.0	NC	20	U
Copper	4.0	U	4.0	NC	20	U
Iron	120	U	120	NC	20	U
Lead	1.2	U	1.2	NC	20	U
Magnesium	24500		24140	1	20	
Manganese	8.0	U	8.0	NC	20	U
Nickel	4.0	U	4.0	NC	20	U
Potassium	2010		1982	1	20	
Selenium	10.0	U	10.0	NC	20	U
Silver	2.0	U	2.0	NC	20	U
Sodium	15300		15000	2	20	
Thallium	0.80	U	0.80	NC	20	U
Vanadium	4.0	U	4.0	NC	20	U
Zinc	16.0	U	16.0	NC	20	U



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-521816

Method: 7470A  
Preparation: 7470A

Lab Sample ID:	MB 460-521816/1-A	Analysis Batch:	460-521899	Instrument ID:	LEEMAN7
Client Matrix:	Water	Prep Batch:	460-521816	Lab File ID:	521816hg1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	05/23/2018 1540	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	05/23/2018 1219				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.12	0.20

### Lab Control Sample - Batch: 460-521816

Method: 7470A  
Preparation: 7470A

Lab Sample ID:	LCS 460-521816/2-A	Analysis Batch:	460-521899	Instrument ID:	LEEMAN7
Client Matrix:	Water	Prep Batch:	460-521816	Lab File ID:	521816hg1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	05/23/2018 1542	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	05/23/2018 1219				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	1.00	1.05	105	80 - 120	

### Matrix Spike - Batch: 460-521816

Method: 7470A  
Preparation: 7470A

Lab Sample ID:	460-156616-D-1-C MS	Analysis Batch:	460-521899	Instrument ID:	LEEMAN7
Client Matrix:	Water	Prep Batch:	460-521816	Lab File ID:	521816hg1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	05/23/2018 1548	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	05/23/2018 1219				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.20 U	1.00	1.04	104	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Duplicate - Batch: 460-521816**

**Method: 7470A**

**Preparation: 7470A**

Lab Sample ID: 460-156616-D-1-B DU  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/23/2018 1546  
Prep Date: 05/23/2018 1219  
Leach Date: N/A

Analysis Batch: 460-521899  
Prep Batch: 460-521816  
Leach Batch: N/A  
Units: ug/L

Instrument ID: LEEMAN7  
Lab File ID: 521816hg1.CSV  
Initial Weight/Volume: 30 mL  
Final Weight/Volume: 30 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.20	U	0.20	NC	20	U



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-522413

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	MB 460-522413/1-A	Analysis Batch:	460-522570	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-522413	Lab File ID:	522412HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/25/2018 0843	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/25/2018 0437				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-522413

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	LCSSRM 460-522413/2-A	Analysis Batch:	460-522570	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-522413	Lab File ID:	522412HG1.CSV
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/25/2018 0849	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/25/2018 0437				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	12.50	105.9	70.3 - 129.7	

### Matrix Spike - Batch: 460-522413

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	460-156665-A-3-J MS	Analysis Batch:	460-522570	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-522413	Lab File ID:	522412HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	05/25/2018 0855	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/25/2018 0437				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.016 U	0.0805	0.0887	110	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Duplicate - Batch: 460-522413**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-156665-A-3-I DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 0853  
Prep Date: 05/25/2018 0437  
Leach Date: N/A

Analysis Batch: 460-522570  
Prep Batch: 460-522413  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 522412HG1.CSV  
Initial Weight/Volume: 0.65 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.016	U	0.0103	NC	20	J



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Method Blank - Batch: 460-522431

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	MB 460-522431/1-A	Analysis Batch:	460-522570	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-522431	Lab File ID:	522412HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/25/2018 0954	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/25/2018 0513				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-522431

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	LCSSRM 460-522431/2-A	Analysis Batch:	460-522570	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-522431	Lab File ID:	522412HG1.CSV
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/25/2018 0956	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/25/2018 0513				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	12.73	107.9	70.3 - 129.7	

### Matrix Spike - Batch: 460-522431

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	460-156665-A-21-J MS	Analysis Batch:	460-522570	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-522431	Lab File ID:	522412HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.66 g
Analysis Date:	05/25/2018 1013	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/25/2018 0513				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.024	0.0842	0.121	115	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Duplicate - Batch: 460-522431**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-156665-A-21-I DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 1011  
Prep Date: 05/25/2018 0513  
Leach Date: N/A

Analysis Batch: 460-522570  
Prep Batch: 460-522431  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 522412HG1.CSV  
Initial Weight/Volume: 0.66 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.024	0.0212	13	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
---------	--------------------	--------------	--------	--------	-------	------

### Duplicate - Batch: 460-521897

### Method: Moisture Preparation: N/A

Lab Sample ID:	460-156630-19	Analysis Batch:	460-521897	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/23/2018 1700	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	17.9	17.0	5	20	
Percent Solids	82.1	83.0	1	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Duplicate - Batch: 460-521916

### Method: Moisture Preparation: N/A

Lab Sample ID:	460-156630-1	Analysis Batch:	460-521916	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/23/2018 1833	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	8.3	7.5	9	20	
Percent Solids	91.7	92.5	0.8	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-1

### Duplicate - Batch: 460-521934

**Method: Moisture**  
**Preparation: N/A**

Lab Sample ID:	460-156772-A-2 DU	Analysis Batch:	460-521934	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/23/2018 1935	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	20.9	20.6	2	20	
Percent Solids	79.1	79.4	0.5	20	



# TestAmerica



NYSC  
460501  
LYSIS REQUEST

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

Page 1 of 4

Name (for report and invoice) <b>Jennifer Lewis</b>		Samples Name (Printed) <b>Nick Iannucci</b>		Site/Project Identification <b>RS41801</b>	
Company <b>PJ Grosser Consulting</b>		P. O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>	
Address <b>630 Johnson Ave Ste 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 5-day		Regulatory Program:	
City <b>Bohemia</b>	State <b>NY</b>			ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)	
Phone <b>(631) 589-6353</b>	Fax			<input checked="" type="checkbox"/> Pest <input checked="" type="checkbox"/> Herb <input checked="" type="checkbox"/> PCBs <input checked="" type="checkbox"/> TAL Metals <input checked="" type="checkbox"/> Mercury <input checked="" type="checkbox"/> VOCs <input checked="" type="checkbox"/> SVOCs	
Sample Identification	Date	Time	Matrix	No. of Cont.	LAB USE ONLY Project No: Job No: Sample Numbers
55-011 (0-3")	5/21/18	850	3	6	1
55-011 (18"-24")		905		6	2
55-012 (0-3")		920		1	3
55-013 (0-3")		935		1	4
55-014 (0-3")		950		1	6
55-015 (0-3")		1015		1	6
55-016 (0-3")		1030		1	7
55-017 (0-3")		1045		1	8
55-018 (0-3")		1050		1	9
55-018 (0-3")		1105		1	10

Preservation Used: 1 = ICE, 2 = HCl, 3 = H<sub>2</sub>SO<sub>4</sub>, 4 = HNO<sub>3</sub>, 5 = NaOH  
Soil: ☐ Water: ☐

6 = Other ☐ 7 = Other ☐

**SHORT  
HOLD**

## Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by <i>[Signature]</i>	Company <b>PWSC</b>	Date / Time <b>5/21/18 10:46</b>	Received by <i>[Signature]</i>	Company <b>PWSC</b>
Relinquished by <i>[Signature]</i>	Company <b>PWSC</b>	Date / Time <b>5/21/18 11:30</b>	Received by <i>[Signature]</i>	Company <b>PWSC</b>
Relinquished by <i>[Signature]</i>	Company <b>PWSC</b>	Date / Time <b>5/21/18 11:30</b>	Received by <i>[Signature]</i>	Company <b>PWSC</b>
Relinquished by <i>[Signature]</i>	Company <b>PWSC</b>	Date / Time <b>5/21/18 11:30</b>	Received by <i>[Signature]</i>	Company <b>PWSC</b>

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0814)



# TestAmerica

NYSC  
460501

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 2 of 4

Name (for report and invoice) <b>Jennifer Lewis</b>		Samplers Name (Printed) <b>Nick Iannucci</b>		Site/Project Identification <b>PSL1801</b>	
Company <b>PWGL</b>		P.O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>	
Address <b>630 Johnson Ave Ste. 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> <b>5-day</b>		Regulatory Program:	
City <b>Bohemia</b>		State <b>NY</b>		LAB USE ONLY Job No: <b>166630</b>	
Phone <b>(631) 589-6353</b>		Fax		Sample Numbers	
Sample Identification	Date	Time	Matrix	No. of Cont.	
<b>35.019 (0-3")</b>	<b>5/21/18</b>	<b>1125</b>	<b>S</b>	<b>6</b>	<b>1'</b>
<b>35.020 (0-3")</b>		<b>1245</b>	<b>S</b>	<b>1</b>	<b>12</b>
<b>35.021 (0-3")</b>		<b>1320</b>	<b>S</b>	<b>6</b>	<b>13</b>
<b>35.021 (18"-24")</b>		<b>1325</b>	<b>S</b>	<b>1</b>	<b>14</b>
<b>35.022 (0-3")</b>		<b>1340</b>	<b>S</b>	<b>6</b>	<b>16</b>
<b>35.023 (0-3")</b>		<b>1350</b>	<b>S</b>	<b>1</b>	<b>17</b>
<b>35.023 (18"-24")</b>		<b>1355</b>	<b>S</b>	<b>6</b>	<b>18</b>
<b>35.024 (0-3")</b>		<b>1415</b>	<b>S</b>	<b>6</b>	<b>19</b>
<b>DUP-002</b>		<b>XX</b>	<b>S</b>	<b>6</b>	<b>20</b>
<b>EB-002</b>		<b>1430</b>	<b>W</b>	<b>12</b>	
Preservation Used: 1 = ICE, 2 = HCl, 3 = H <sub>2</sub> SO <sub>4</sub> , 4 = HNO <sub>3</sub> , 5 = NaOH					
6 = Other _____, 7 = Other _____					
Soil: _____ Water: _____					

### Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by <b>[Signature]</b>	Company <b>PWGL</b>	Date / Time <b>5/21/18 1640</b>	Received by <b>[Signature]</b>	Company <b>[Signature]</b>
Relinquished by <b>[Signature]</b>	Company <b>[Signature]</b>	Date / Time <b>5/21/18 1130</b>	Received by <b>[Signature]</b>	Company <b>[Signature]</b>
Relinquished by <b>[Signature]</b>	Company <b>[Signature]</b>	Date / Time <b>5/21/18 1230</b>	Received by <b>[Signature]</b>	Company <b>[Signature]</b>
Relinquished by <b>[Signature]</b>	Company <b>[Signature]</b>	Date / Time <b>[Signature]</b>	Received by <b>[Signature]</b>	Company <b>[Signature]</b>

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)



777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 3 of 4

Water Metals Filtered (Yes/No)?TAL - 0016 (0814)



777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 4 of 4Page 4 of 4

Address <b>630 Johnson Ave. Ste. 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/>		ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)										LAB USE ONLY Job No: <b>166636</b>	
City <b>Bohemia</b> State <b>NY</b>		Rush Charges Authorized <input checked="" type="checkbox"/> <b>NO</b>												Project No:	
Phone <b>(631) 589-6353</b> Fax		1 Week <input type="checkbox"/> Other <input type="checkbox"/>													
Sample Identification	Date	Time	Matrix	No. of Cont.	Pest	Herb	TAL Metals	Mercury						Sample Numbers	
55.012 (18"-24")	5/24/18	925	S	1	X	X	X	X						22	
55.013 (18"-24")		940												23	
55.014 (18"-24")		1000												24	
55.015 (18"-24")		1020												25	
55.016 (18"-24")		1035												26	
55.018 (18"-24")		1050												27	
55.019 (18"-24")		1130												28	
55.020 (18"-24")		1250												29	
55.022 (18"-24")		1345												30	
55.023 (18"-24")		1420												31	
Preservation Used: 1 = ICE, 2 = HCl, 3 = H <sub>2</sub> SO <sub>4</sub> , 4 = HNO <sub>3</sub> , 5 = NaOH 6 = Other _____, 7 = Other _____ Soil: _____ Water: _____															

Water Metals Filtered (Yes/No)?

TAL - 0016 (0814)



166 630

[illegible]

EDS-M-038, Rev 4, 06/09/2014



## Login Sample Receipt Checklist

Client: PW Grosser Consulting

Job Number: 460-156630-1

**Login Number: 156630**

**List Source: TestAmerica Edison**

**List Number: 1**

**Creator: Meyers, Gary**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

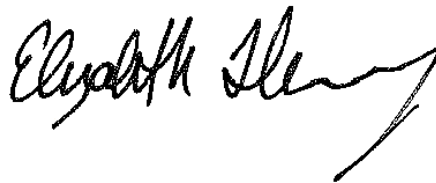


## ANALYTICAL REPORT

Job Number: 460-156630-2

Job Description: RSL1801 - Island Hills Golf Course

For:  
PW Grosser Consulting  
630 Johnson Ave  
Suite 7  
Bohemia, NY 11716  
Attention: Ms. Jennifer Lewis



Approved for release.  
Elizabeth J Flannery  
Project Manager I  
6/8/2018 5:17 PM

---

Designee for  
Melissa Haas, Project Manager I  
777 New Durham Road, Edison, NJ, 08817  
(203)944-1310  
melissa.haas@testamericainc.com  
06/08/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LA000132

**TestAmerica Laboratories, Inc.**

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817  
Tel (732) 549-3900 Fax (732) 549-3679 [www.testamericainc.com](http://www.testamericainc.com)





## **CASE NARRATIVE**

**Client: PW Grosser Consulting**

**Project: RSL1801 - Island Hills Golf Course**

**Report Number: 460-156630-2**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 5/21/2018 8:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

### **Receipt Exceptions**

The Chain-of-Custody (COC) was improperly completed. The sample IDs should have hyphens instead of periods (i.e. SS-011 instead of SS.011)

Per client request, the contingent samples on hold were moved to a -2 job number to be reported separately from the samples that were analyzed upon receipt.

The following samples were activated by the client on 6/1/18 for select metals and pesticide analysis<DATE>: SS-012 (18"-24") (460-156630-22), SS-014 (18"-24") (460-156630-24), SS-018 (18"-24") (460-156630-27), SS-019 (18"-24") (460-156630-28) and SS-022 (18"-24") (460-156630-30).

Remaining holds were cancelled by the client on 6/8/18.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

### **PESTICIDES**

Samples SS-012 (18"-24") (460-156630-22), SS-014 (18"-24") (460-156630-24), SS-015 (18"-24") (460-156630-25), SS-018 (18"-24") (460-156630-27), SS-019 (18"-24") (460-156630-28) and SS-022 (18"-24") (460-156630-30) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 06/02/2018 and analyzed on 06/04/2018 and 06/05/2018.

The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE for the following sample: SS-018 (18"-24") (460-156630-27). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Several analytes failed the recovery criteria low for the MS of sample SS-012 (18"-24")MS (460-156630-22) in batch 460-524943. Several analytes failed the recovery criteria low for the MSD of sample SS-012 (18"-24")MSD (460-156630-22) in batch 460-524943. Endosulfan II and Endrin ketone exceeded the RPD limit.

Refer to the QC report for details.

Sample SS-015 (18"-24") (460-156630-25)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

### **TOTAL METALS (ICP)**



Samples SS-012 (18"-24") (460-156630-22), SS-014 (18"-24") (460-156630-24), SS-015 (18"-24") (460-156630-25), SS-018 (18"-24") (460-156630-27), SS-019 (18"-24") (460-156630-28) and SS-022 (18"-24") (460-156630-30) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 06/03/2018 and 06/05/2018 and analyzed on 06/05/2018 and 06/06/2018.

Antimony and Manganese failed the recovery criteria low for the MS of sample 460-156722-53 in batch 460-525595. Aluminum, Chromium and Iron failed the recovery criteria high.

Antimony failed the recovery criteria low for the MS of sample 460-157001-1 in batch 460-525282. Aluminum and Iron failed the recovery criteria high.

Antimony and Iron failed the recovery criteria low for the MSD of sample 460-157001-1 in batch 460-525282. Aluminum failed the recovery criteria high.

Antimony, Chromium, Iron and Manganese failed the recovery criteria low for the MS of sample 460-157224-1 in batch 460-525282.

Arsenic, Chromium, Cobalt, Iron and Manganese exceeded the RPD limit for the duplicate of sample 460-157224-1. Refer to the QC report for details.

Samples SS-012 (18"-24") (460-156630-22)[4X], SS-014 (18"-24") (460-156630-24)[4X], SS-015 (18"-24") (460-156630-25)[4X], SS-018 (18"-24") (460-156630-27)[4X], SS-019 (18"-24") (460-156630-28)[4X] and SS-022 (18"-24") (460-156630-30)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Total Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY**

Samples SS-012 (18"-24") (460-156630-22), SS-014 (18"-24") (460-156630-24), SS-015 (18"-24") (460-156630-25), SS-018 (18"-24") (460-156630-27), SS-019 (18"-24") (460-156630-28) and SS-022 (18"-24") (460-156630-30) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 06/04/2018 and 06/07/2018.

Mercury failed the recovery criteria high for the MSD of sample 460-157003-2 in batch 460-524920.

Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Samples SS-015 (18"-24") (460-156630-25)[10X], SS-018 (18"-24") (460-156630-27)[10X] and SS-019 (18"-24") (460-156630-28)[40X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

#### **PERCENT SOLIDS/PERCENT MOISTURE**

Samples SS-012 (18"-24") (460-156630-22), SS-014 (18"-24") (460-156630-24), SS-015 (18"-24") (460-156630-25), SS-018 (18"-24") (460-156630-27), SS-019 (18"-24") (460-156630-28) and SS-022 (18"-24") (460-156630-30) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 06/03/2018 and 06/04/2018.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-22</b>	<b>SS-012 (18"-24")</b>					
Heptachlor epoxide		0.0023	J F1	0.0078	mg/Kg	8081B
Chromium		9.5		2.1	mg/Kg	6010C
Mercury		0.084		0.019	mg/Kg	7471B
Percent Moisture		14.1		1.0	%	Moisture
Percent Solids		85.9		1.0	%	Moisture
<b>460-156630-24</b>	<b>SS-014 (18"-24")</b>					
Chromium		7.3		2.0	mg/Kg	6010C
Mercury		0.088		0.018	mg/Kg	7471B
Percent Moisture		9.4		1.0	%	Moisture
Percent Solids		90.6		1.0	%	Moisture
<b>460-156630-25</b>	<b>SS-015 (18"-24")</b>					
Chlordane (technical)		1.6		0.37	mg/Kg	8081B
Heptachlor epoxide		0.087		0.037	mg/Kg	8081B
Cadmium		0.56	J	0.69	mg/Kg	6010C
Chromium		14.3		1.7	mg/Kg	6010C
Mercury		6.4		0.17	mg/Kg	7471B
Percent Moisture		10.2		1.0	%	Moisture
Percent Solids		89.8		1.0	%	Moisture
<b>460-156630-27</b>	<b>SS-018 (18"-24")</b>					
Chlordane (technical)		0.51		0.083	mg/Kg	8081B
Heptachlor epoxide		0.034		0.0083	mg/Kg	8081B
Cadmium		0.41	J	0.78	mg/Kg	6010C
Chromium		6.7		2.0	mg/Kg	6010C
Mercury		4.5		0.21	mg/Kg	7471B
Percent Moisture		19.9		1.0	%	Moisture
Percent Solids		80.1		1.0	%	Moisture
<b>460-156630-28</b>	<b>SS-019 (18"-24")</b>					
Chlordane (technical)		0.67		0.076	mg/Kg	8081B
Heptachlor epoxide		0.024		0.0076	mg/Kg	8081B
Chromium		11.5		1.8	mg/Kg	6010C
Lead		12.5		1.8	mg/Kg	6010C
Mercury		8.3		0.75	mg/Kg	7471B
Percent Moisture		11.9		1.0	%	Moisture
Percent Solids		88.1		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156630-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156630-30</b>	<b>SS-022 (18"-24")</b>					
Chlordane (technical)		0.11		0.072	mg/Kg	8081B
Heptachlor epoxide		0.015		0.0072	mg/Kg	8081B
Chromium		5.6		1.9	mg/Kg	6010C
Mercury		0.24		0.016	mg/Kg	7471B
Percent Moisture		6.8		1.0	%	Moisture
Percent Solids		93.2		1.0	%	Moisture



## METHOD SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156630-2

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Organochlorine Pesticides (GC)	TAL EDI	SW846 8081B	
Microwave Extraction	TAL EDI		SW846 3546
Metals (ICP)	TAL EDI	SW846 6010C	
Preparation, Metals	TAL EDI		SW846 3050B
Mercury (CVAA)	TAL EDI	SW846 7471B	
Preparation, Mercury	TAL EDI		SW846 7471B
Percent Moisture	TAL EDI	EPA Moisture	

### Lab References:

TAL EDI = TestAmerica Edison

### Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.



## METHOD / ANALYST SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156630-2

Method	Analyst	Analyst ID
SW846 8081B	Kapoor, Sita	SAK
SW846 6010C	Chang, Churn Der	CDC
SW846 7471B	Staib, Thomas	TJS
EPA Moisture	Callahan, Rory W	RWC
EPA Moisture	Villanueva, Angelica P	APV



## SAMPLE SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156630-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-156630-22	SS-012 (18"-24")	Solid	05/21/2018 0925	05/21/2018 2000
460-156630-24	SS-014 (18"-24")	Solid	05/21/2018 1000	05/21/2018 2000
460-156630-25	SS-015 (18"-24")	Solid	05/21/2018 1020	05/21/2018 2000
460-156630-27	SS-018 (18"-24")	Solid	05/21/2018 1110	05/21/2018 2000
460-156630-28	SS-019 (18"-24")	Solid	05/21/2018 1130	05/21/2018 2000
460-156630-30	SS-022 (18"-24")	Solid	05/21/2018 1345	05/21/2018 2000



# **SAMPLE RESULTS**



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

Client Sample ID: SS-012 (18"-24")

Lab Sample ID: 460-156630-22

Date Sampled: 05/21/2018 0925

Client Matrix: Solid

% Moisture: 14.1

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524943

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0199 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/04/2018 1407

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.078	U	0.019	0.078
Heptachlor epoxide		0.0023	J F1	0.0012	0.0078

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	104		69 - 150
Tetrachloro-m-xylene	115		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-012 (18"-24")**

Lab Sample ID: 460-156630-22

Date Sampled: 05/21/2018 0925

Client Matrix: Solid

% Moisture: 14.1

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524943

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0199 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/04/2018 1407

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	94		69 - 150
Tetrachloro-m-xylene	108		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-014 (18"-24")**

Lab Sample ID: 460-156630-24

Date Sampled: 05/21/2018 1000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524943

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0369 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/04/2018 1420

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.074	U	0.018	0.074
Heptachlor epoxide		0.0074	U	0.0011	0.0074

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	92		69 - 150
Tetrachloro-m-xylene	108		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-014 (18"-24")**

Lab Sample ID: 460-156630-24

Date Sampled: 05/21/2018 1000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524943

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0369 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/04/2018 1420

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	89		69 - 150
Tetrachloro-m-xylene	102		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-015 (18"-24")**

Lab Sample ID: 460-156630-25

Date Sampled: 05/21/2018 1020

Client Matrix: Solid

% Moisture: 10.2

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-525206

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0365 g

Dilution: 5.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 1153

Run Type: DL

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		1.6		0.090	0.37
Heptachlor epoxide		0.087		0.0056	0.037

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	85		69 - 150
Tetrachloro-m-xylene	130		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-015 (18"-24")**

Lab Sample ID: 460-156630-25

Date Sampled: 05/21/2018 1020

Client Matrix: Solid

% Moisture: 10.2

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-525206

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0365 g

Dilution: 5.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 1153

Run Type: DL

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	76		69 - 150
Tetrachloro-m-xylene	103		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

Client Sample ID: SS-018 (18"-24")

Lab Sample ID: 460-156630-27

Date Sampled: 05/21/2018 1110

Client Matrix: Solid

% Moisture: 19.9

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524943

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0254 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/04/2018 1525

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.51		0.020	0.083
Heptachlor epoxide		0.034		0.0012	0.0083

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	103		69 - 150
Tetrachloro-m-xylene	113		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-018 (18"-24")**

Lab Sample ID: 460-156630-27

Date Sampled: 05/21/2018 1110

Client Matrix: Solid

% Moisture: 19.9

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524943

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0254 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/04/2018 1525

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	99		69 - 150
Tetrachloro-m-xylene	104		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-019 (18"-24")**

Lab Sample ID: 460-156630-28

Date Sampled: 05/21/2018 1130

Client Matrix: Solid

% Moisture: 11.9

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524943

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0147 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/04/2018 1537

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.67		0.018	0.076
Heptachlor epoxide		0.024		0.0011	0.0076

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	78		69 - 150
Tetrachloro-m-xylene	82		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-019 (18"-24")**

Lab Sample ID: 460-156630-28

Date Sampled: 05/21/2018 1130

Client Matrix: Solid

% Moisture: 11.9

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524943

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0147 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/04/2018 1537

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	73		69 - 150
Tetrachloro-m-xylene	81		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

Client Sample ID: SS-022 (18"-24")

Lab Sample ID: 460-156630-30

Date Sampled: 05/21/2018 1345

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524943

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0169 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/04/2018 1433

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.11		0.017	0.072
Heptachlor epoxide		0.015		0.0011	0.0072

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	83		69 - 150
Tetrachloro-m-xylene	112		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-022 (18"-24")**

Lab Sample ID: 460-156630-30

Date Sampled: 05/21/2018 1345

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524943

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524621

Initial Weight/Volume: 15.0169 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/04/2018 1433

Injection Volume: 1 uL

Prep Date: 06/02/2018 1603

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	74		69 - 150
Tetrachloro-m-xylene	94		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-012 (18"-24")**

Lab Sample ID: 460-156630-22

Date Sampled: 05/21/2018 0925

Client Matrix: Solid

% Moisture: 14.1

Date Received: 05/21/2018 2000

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525282

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-525218

Lab File ID: 525230D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.09 g

Analysis Date: 06/05/2018 2213

Final Weight/Volume: 50 mL

Prep Date: 06/05/2018 0811

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		9.5		0.59	2.1

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524819

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 06/04/2018 0909

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0438

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.084		0.011	0.019

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-014 (18"-24")**

Lab Sample ID: 460-156630-24

Date Sampled: 05/21/2018 1000

Client Matrix: Solid

% Moisture: 9.4

Date Received: 05/21/2018 2000

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525282

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-525218

Lab File ID: 525230D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.10 g

Analysis Date: 06/05/2018 2217

Final Weight/Volume: 50 mL

Prep Date: 06/05/2018 0811

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		7.3		0.56	2.0

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524819

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 06/04/2018 0911

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0438

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.088		0.011	0.018

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-015 (18"-24")**

Lab Sample ID: 460-156630-25

Date Sampled: 05/21/2018 1020

Client Matrix: Solid

% Moisture: 10.2

Date Received: 05/21/2018 2000

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525282

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524794

Lab File ID: 525230D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.29 g

Analysis Date: 06/05/2018 2123

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.56	J	0.10	0.69
Chromium		14.3		0.48	1.7

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-525917

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-525771

Lab File ID: 525771HG1.CSV

Dilution: 10

Initial Weight/Volume: 0.67 g

Analysis Date: 06/07/2018 1117

Final Weight/Volume: 50 mL

Prep Date: 06/07/2018 0408

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		6.4		0.10	0.17



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-018 (18"-24")**

Lab Sample ID: 460-156630-27

Date Sampled: 05/21/2018 1110

Client Matrix: Solid

% Moisture: 19.9

Date Received: 05/21/2018 2000

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525282

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524794

Lab File ID: 525230D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.28 g

Analysis Date: 06/05/2018 2127

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.41	J	0.12	0.78
Chromium		6.7		0.54	2.0

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-525917

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-525771

Lab File ID: 525771HG1.CSV

Dilution: 10

Initial Weight/Volume: 0.60 g

Analysis Date: 06/07/2018 1119

Final Weight/Volume: 50 mL

Prep Date: 06/07/2018 0408

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		4.5		0.12	0.21



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-019 (18"-24")**

Lab Sample ID: 460-156630-28

Date Sampled: 05/21/2018 1130

Client Matrix: Solid

% Moisture: 11.9

Date Received: 05/21/2018 2000

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.27 g

Analysis Date: 06/06/2018 1959

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.71	U	0.11	0.71
Chromium		11.5		0.50	1.8
Lead		12.5		0.54	1.8

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 40

Initial Weight/Volume: 0.62 g

Analysis Date: 06/04/2018 1137

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		8.3		0.44	0.75



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Client Sample ID: SS-022 (18"-24")**

Lab Sample ID: 460-156630-30

Date Sampled: 05/21/2018 1345

Client Matrix: Solid

% Moisture: 6.8

Date Received: 05/21/2018 2000

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525282

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-525218

Lab File ID: 525230D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.12 g

Analysis Date: 06/05/2018 2221

Final Weight/Volume: 50 mL

Prep Date: 06/05/2018 0811

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		5.6		0.53	1.9

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524819

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.67 g

Analysis Date: 06/04/2018 0913

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0438

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.24		0.0096	0.016

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

---

### General Chemistry

**Client Sample ID:** SS-012 (18"-24")

Lab Sample ID: 460-156630-22

Client Matrix: Solid

Date Sampled: 05/21/2018 0925

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524740	Analysis Date: 06/03/2018	1401				DryWt Corrected: N
Percent Solids	85.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524740	Analysis Date: 06/03/2018	1401				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

---

### General Chemistry

**Client Sample ID:** SS-014 (18"-24")

Lab Sample ID: 460-156630-24

Client Matrix: Solid

Date Sampled: 05/21/2018 1000

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524740	Analysis Date: 06/03/2018	1401				DryWt Corrected: N
Percent Solids	90.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524740	Analysis Date: 06/03/2018	1401				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

---

### General Chemistry

**Client Sample ID:** SS-015 (18"-24")

Lab Sample ID: 460-156630-25

Client Matrix: Solid

Date Sampled: 05/21/2018 1020

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	10.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524955	Analysis Date: 06/04/2018	1536				DryWt Corrected: N
Percent Solids	89.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524955	Analysis Date: 06/04/2018	1536				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

---

### General Chemistry

**Client Sample ID:** SS-018 (18"-24")

Lab Sample ID: 460-156630-27

Client Matrix: Solid

Date Sampled: 05/21/2018 1110

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524955	Analysis Date: 06/04/2018	1536				DryWt Corrected: N
Percent Solids	80.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524955	Analysis Date: 06/04/2018	1536				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

---

### General Chemistry

**Client Sample ID:** SS-019 (18"-24")

Lab Sample ID: 460-156630-28

Client Matrix: Solid

Date Sampled: 05/21/2018 1130

Date Received: 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	11.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524955	Analysis Date: 06/04/2018	1536				DryWt Corrected: N
Percent Solids	88.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524955	Analysis Date: 06/04/2018	1536				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156630-2

---

### General Chemistry

**Client Sample ID:** SS-022 (18"-24")

**Lab Sample ID:** 460-156630-30

**Client Matrix:** Solid

**Date Sampled:** 05/21/2018 1345

**Date Received:** 05/21/2018 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524740	Analysis Date: 06/03/2018	1401				DryWt Corrected: N
Percent Solids	93.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-524740	Analysis Date: 06/03/2018	1401				DryWt Corrected: N



## DATA REPORTING QUALIFIERS

Client: PW Grosser Consulting

Job Number: 460-156630-2

Lab Section	Qualifier	Description
GC Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	F2	MS/MSD RPD exceeds control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
Metals		
	F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
	F3	Duplicate RPD exceeds the control limit
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



# QUALITY CONTROL RESULTS



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-524621</b>					
LCS 460-524621/2-A	Lab Control Sample	T	Solid	3546	
MB 460-524621/1-A	Method Blank	T	Solid	3546	
460-156630-22	SS-012 (18"-24")	T	Solid	3546	
460-156630-22MS	Matrix Spike	T	Solid	3546	
460-156630-22MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156630-24	SS-014 (18"-24")	T	Solid	3546	
460-156630-25DL	SS-015 (18"-24")	T	Solid	3546	
460-156630-27	SS-018 (18"-24")	T	Solid	3546	
460-156630-28	SS-019 (18"-24")	T	Solid	3546	
460-156630-30	SS-022 (18"-24")	T	Solid	3546	
<b>Analysis Batch:460-524943</b>					
LCS 460-524621/2-A	Lab Control Sample	T	Solid	8081B	460-524621
MB 460-524621/1-A	Method Blank	T	Solid	8081B	460-524621
460-156630-22	SS-012 (18"-24")	T	Solid	8081B	460-524621
460-156630-22MS	Matrix Spike	T	Solid	8081B	460-524621
460-156630-22MSD	Matrix Spike Duplicate	T	Solid	8081B	460-524621
460-156630-24	SS-014 (18"-24")	T	Solid	8081B	460-524621
460-156630-27	SS-018 (18"-24")	T	Solid	8081B	460-524621
460-156630-28	SS-019 (18"-24")	T	Solid	8081B	460-524621
460-156630-30	SS-022 (18"-24")	T	Solid	8081B	460-524621
<b>Analysis Batch:460-525206</b>					
460-156630-25DL	SS-015 (18"-24")	T	Solid	8081B	460-524621

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-524794</b>					
LCSSRM 460-524794/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-524794/1-A ^2	Method Blank	T	Solid	3050B	
460-156630-25	SS-015 (18"-24")	T	Solid	3050B	
460-156630-27	SS-018 (18"-24")	T	Solid	3050B	
460-157001-A-1-V DU ^4	Duplicate	T	Solid	3050B	
460-157001-B-1-K MS ^4	Matrix Spike	T	Solid	3050B	
460-157001-B-1-L MSD ^4	Matrix Spike Duplicate	T	Solid	3050B	
<b>Prep Batch: 460-524795</b>					
LCSSRM 460-524795/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-524795/1-A ^2	Method Blank	T	Solid	3050B	
460-156630-28	SS-019 (18"-24")	T	Solid	3050B	
460-156722-A-53-C DU ^4	Duplicate	T	Solid	3050B	
460-156722-A-53-D MS ^4	Matrix Spike	T	Solid	3050B	
<b>Prep Batch: 460-524819</b>					
LCSSRM 460-524819/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	
MB 460-524819/1-A	Method Blank	T	Solid	7471B	
460-156562-A-6-AK DU	Duplicate	T	Solid	7471B	
460-156562-A-6-AL MS	Matrix Spike	T	Solid	7471B	
460-156562-A-6-AM MSD	Matrix Spike Duplicate	T	Solid	7471B	
460-156630-22	SS-012 (18"-24")	T	Solid	7471B	
460-156630-24	SS-014 (18"-24")	T	Solid	7471B	
460-156630-30	SS-022 (18"-24")	T	Solid	7471B	
<b>Prep Batch: 460-524830</b>					
LCSSRM 460-524830/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	
MB 460-524830/1-A	Method Blank	T	Solid	7471B	
460-156630-28	SS-019 (18"-24")	T	Solid	7471B	
460-157003-A-2-U DU	Duplicate	T	Solid	7471B	
460-157003-A-2-V MS	Matrix Spike	T	Solid	7471B	
460-157003-A-2-W MSD	Matrix Spike Duplicate	T	Solid	7471B	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:460-524920</b>					
LCSSRM 460-524819/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	460-524819
MB 460-524819/1-A	Method Blank	T	Solid	7471B	460-524819
LCSSRM 460-524830/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	460-524830
MB 460-524830/1-A	Method Blank	T	Solid	7471B	460-524830
460-156562-A-6-AK DU	Duplicate	T	Solid	7471B	460-524819
460-156562-A-6-AL MS	Matrix Spike	T	Solid	7471B	460-524819
460-156562-A-6-AM MSD	Matrix Spike Duplicate	T	Solid	7471B	460-524819
460-156630-22	SS-012 (18"-24")	T	Solid	7471B	460-524819
460-156630-24	SS-014 (18"-24")	T	Solid	7471B	460-524819
460-156630-28	SS-019 (18"-24")	T	Solid	7471B	460-524830
460-156630-30	SS-022 (18"-24")	T	Solid	7471B	460-524819
460-157003-A-2-U DU	Duplicate	T	Solid	7471B	460-524830
460-157003-A-2-V MS	Matrix Spike	T	Solid	7471B	460-524830
460-157003-A-2-W MSD	Matrix Spike Duplicate	T	Solid	7471B	460-524830
<b>Prep Batch: 460-525218</b>					
LCSSRM 460-525218/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-525218/1-A ^2	Method Blank	T	Solid	3050B	
460-156630-22	SS-012 (18"-24")	T	Solid	3050B	
460-156630-24	SS-014 (18"-24")	T	Solid	3050B	
460-156630-30	SS-022 (18"-24")	T	Solid	3050B	
460-157224-A-1-E DU ^4	Duplicate	T	Solid	3050B	
460-157224-A-1-F MS ^4	Matrix Spike	T	Solid	3050B	
<b>Analysis Batch:460-525282</b>					
LCSSRM 460-524794/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-524794
MB 460-524794/1-A ^2	Method Blank	T	Solid	6010C	460-524794
LCSSRM 460-525218/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-525218
MB 460-525218/1-A ^2	Method Blank	T	Solid	6010C	460-525218
460-156630-22	SS-012 (18"-24")	T	Solid	6010C	460-525218
460-156630-24	SS-014 (18"-24")	T	Solid	6010C	460-525218
460-156630-25	SS-015 (18"-24")	T	Solid	6010C	460-524794
460-156630-27	SS-018 (18"-24")	T	Solid	6010C	460-524794
460-156630-30	SS-022 (18"-24")	T	Solid	6010C	460-525218
460-157001-A-1-V DU ^4	Duplicate	T	Solid	6010C	460-524794
460-157001-B-1-K MS ^4	Matrix Spike	T	Solid	6010C	460-524794
460-157001-B-1-L MSD ^4	Matrix Spike Duplicate	T	Solid	6010C	460-524794
460-157224-A-1-E DU ^4	Duplicate	T	Solid	6010C	460-525218
460-157224-A-1-F MS ^4	Matrix Spike	T	Solid	6010C	460-525218

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:460-525595</b>					
LCSSRM 460-524795/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-524795
MB 460-524795/1-A ^2	Method Blank	T	Solid	6010C	460-524795
460-156630-28	SS-019 (18"-24")	T	Solid	6010C	460-524795
460-156722-A-53-C DU ^4	Duplicate	T	Solid	6010C	460-524795
460-156722-A-53-D MS ^4	Matrix Spike	T	Solid	6010C	460-524795
<b>Prep Batch: 460-525771</b>					
LCSSRM 460-525771/11-A ^4	LCS-Certified Reference Material	T	Solid	7471B	
MB 460-525771/10-A	Method Blank	T	Solid	7471B	
460-156630-25	SS-015 (18"-24")	T	Solid	7471B	
460-156630-27	SS-018 (18"-24")	T	Solid	7471B	
460-157617-E-1-B DU	Duplicate	T	Solid	7471B	
460-157617-E-1-C MS	Matrix Spike	T	Solid	7471B	
<b>Analysis Batch:460-525917</b>					
LCSSRM 460-525771/11-A ^4	LCS-Certified Reference Material	T	Solid	7471B	460-525771
MB 460-525771/10-A	Method Blank	T	Solid	7471B	460-525771
460-156630-25	SS-015 (18"-24")	T	Solid	7471B	460-525771
460-156630-27	SS-018 (18"-24")	T	Solid	7471B	460-525771
460-157617-E-1-B DU	Duplicate	T	Solid	7471B	460-525771
460-157617-E-1-C MS	Matrix Spike	T	Solid	7471B	460-525771
<b>Report Basis</b>					
T = Total					
<b>General Chemistry</b>					
<b>Analysis Batch:460-524740</b>					
460-156630-22	SS-012 (18"-24")	T	Solid	Moisture	
460-156630-24	SS-014 (18"-24")	T	Solid	Moisture	
460-156630-30	SS-022 (18"-24")	T	Solid	Moisture	
460-157273-D-20 DU	Duplicate	T	Solid	Moisture	
<b>Analysis Batch:460-524955</b>					
460-156630-25	SS-015 (18"-24")	T	Solid	Moisture	
460-156630-27	SS-018 (18"-24")	T	Solid	Moisture	
460-156630-28	SS-019 (18"-24")	T	Solid	Moisture	
460-156991-D-4 MS	Matrix Spike	T	Solid	Moisture	
460-156991-D-4 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
460-157174-A-10 DU	Duplicate	T	Solid	Moisture	
<b>Report Basis</b>					
T = Total					

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Surrogate Recovery Report

#### 8081B Organochlorine Pesticides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCBP1 %Rec	DCBP2 %Rec	TCX1 %Rec	TCX2 %Rec
460-156630-22	SS-012 (18"-24")	104	94	115	108
460-156630-24	SS-014 (18"-24")	92	89	108	102
460-156630-25 DL	SS-015 (18"-24") DL	85	76	130	103
460-156630-27	SS-018 (18"-24")	103	99	113	104
460-156630-28	SS-019 (18"-24")	78	73	81	82
460-156630-30	SS-022 (18"-24")	83	74	112	94
MB 460-524621/1-A		81	84	83	84
LCS 460-524621/2-A		82	83	84	80
460-156630-22 MS	SS-012 (18"-24") MS	92	86	104	88
460-156630-22 MSD	SS-012 (18"-24") MSD	84	83	94	91

Surrogate	Acceptance Limits
DCBP = DCB Decachlorobiphenyl	69-150
TCX = Tetrachloro-m-xylene	74-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Method Blank - Batch: 460-524621

### Method: 8081B Preparation: 3546

Lab Sample ID: MB 460-524621/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 1342  
Prep Date: 06/02/2018 1603  
Leach Date: N/A

Analysis Batch: 460-524943  
Prep Batch: 460-524621  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC5  
Lab File ID: 5F921742.D  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.0067	U	0.0011	0.0067
4,4'-DDE	0.0067	U	0.00079	0.0067
4,4'-DDT	0.0067	U	0.0012	0.0067
Aldrin	0.0067	U	0.0010	0.0067
alpha-BHC	0.0020	U	0.00068	0.0020
beta-BHC	0.0020	U	0.00075	0.0020
Chlordane (technical)	0.067	U	0.016	0.067
delta-BHC	0.0020	U	0.00041	0.0020
Dieldrin	0.0020	U	0.00087	0.0020
Endosulfan I	0.0067	U	0.0010	0.0067
Endosulfan II	0.0067	U	0.0017	0.0067
Endosulfan sulfate	0.0067	U	0.00084	0.0067
Endrin	0.0067	U	0.00096	0.0067
Endrin aldehyde	0.0067	U	0.0016	0.0067
Endrin ketone	0.0067	U	0.0013	0.0067
gamma-BHC (Lindane)	0.0020	U	0.00062	0.0020
Heptachlor	0.0067	U	0.00079	0.0067
Heptachlor epoxide	0.0067	U	0.0010	0.0067
Methoxychlor	0.0067	U	0.0015	0.0067
Toxaphene	0.067	U	0.024	0.067

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	84	69 - 150
Tetrachloro-m-xylene	84	74 - 150

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	81	69 - 150
Tetrachloro-m-xylene	83	74 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Lab Control Sample - Batch: 460-524621

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-524621/2-A	Analysis Batch:	460-524943	Instrument ID:	CPESTGC5
Client Matrix:	Solid	Prep Batch:	460-524621	Lab File ID:	5F921743.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	06/04/2018 1355	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	06/02/2018 1603			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.118	89	67 - 130	
4,4'-DDE	0.133	0.114	86	70 - 127	
4,4'-DDT	0.133	0.113	85	70 - 122	
Aldrin	0.133	0.111	83	66 - 137	
alpha-BHC	0.133	0.112	84	65 - 142	
beta-BHC	0.133	0.113	85	70 - 132	
delta-BHC	0.133	0.118	89	65 - 136	
Dieldrin	0.133	0.111	83	70 - 134	
Endosulfan I	0.133	0.113	85	70 - 136	
Endosulfan II	0.133	0.117	88	72 - 127	
Endosulfan sulfate	0.133	0.111	83	71 - 128	
Endrin	0.133	0.113	85	74 - 129	
Endrin aldehyde	0.133	0.119	89	71 - 129	
Endrin ketone	0.133	0.122	91	68 - 135	
gamma-BHC (Lindane)	0.133	0.110	83	68 - 136	
Heptachlor	0.133	0.110	83	68 - 132	
Heptachlor epoxide	0.133	0.107	81	72 - 131	
Methoxychlor	0.133	0.109	82	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	83		69 - 150		
Tetrachloro-m-xylene	84		74 - 150		

### Lab Control Sample - Batch: 460-524621

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-524621/2-A	Analysis Batch:	460-524943	Instrument ID:	CPESTGC5
Client Matrix:	Solid	Prep Batch:	460-524621	Lab File ID:	5F921743.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	06/04/2018 1355	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	06/02/2018 1603			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.118	88	67 - 130	
4,4'-DDE	0.133	0.109	82	70 - 127	
4,4'-DDT	0.133	0.113	84	70 - 122	
Aldrin	0.133	0.111	83	66 - 137	
alpha-BHC	0.133	0.111	83	65 - 142	
beta-BHC	0.133	0.108	81	70 - 132	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Lab Control Sample - Batch: 460-524621

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-524621/2-A	Analysis Batch:	460-524943	Instrument ID:	CPESTGC5
Client Matrix:	Solid	Prep Batch:	460-524621	Lab File ID:	5F921743.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	06/04/2018 1355	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	06/02/2018 1603			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
delta-BHC	0.133	0.116	87	65 - 136	
Dieldrin	0.133	0.108	81	70 - 134	
Endosulfan I	0.133	0.106	79	70 - 136	
Endosulfan II	0.133	0.112	84	72 - 127	
Endosulfan sulfate	0.133	0.108	81	71 - 128	
Endrin	0.133	0.110	83	74 - 129	
Endrin aldehyde	0.133	0.113	85	71 - 129	
Endrin ketone	0.133	0.114	85	68 - 135	
gamma-BHC (Lindane)	0.133	0.109	82	68 - 136	
Heptachlor	0.133	0.109	82	68 - 132	
Heptachlor epoxide	0.133	0.107	80	72 - 131	
Methoxychlor	0.133	0.105	79	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	82		69 - 150		
Tetrachloro-m-xylene	80		74 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-524621

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156630-22  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 1446  
Prep Date: 06/02/2018 1603  
Leach Date: N/A

Analysis Batch: 460-524943  
Prep Batch: 460-524621  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921747.D  
Initial Weight/Volume: 15.0215 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

MSD Lab Sample ID: 460-156630-22  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 1459  
Prep Date: 06/02/2018 1603  
Leach Date: N/A

Analysis Batch: 460-524943  
Prep Batch: 460-524621  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921748.D  
Initial Weight/Volume: 15.0381 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	66	63	67 - 130	4	30	F1	F1
4,4'-DDE	92	83	70 - 127	10	30		
4,4'-DDT	78	70	70 - 122	10	30		
Aldrin	91	85	66 - 137	7	30		
alpha-BHC	72	70	65 - 142	3	30		
beta-BHC	41	39	70 - 132	5	30	F1	F1
delta-BHC	15	16	65 - 136	8	30	F1	F1
Dieldrin	53	51	70 - 134	3	30	F1	F1
Endosulfan I	90	85	70 - 136	6	30		
Endosulfan II	4	7	72 - 127	57	30	J F1	F1 F2
Endosulfan sulfate	0	0	71 - 128	NC	30	U F1	U F1
Endrin	59	58	74 - 129	3	30	F1	F1
Endrin aldehyde	0	0	71 - 129	NC	30	U F1	U F1
Endrin ketone	2	4	68 - 135	56	30	J F1	J F1 F2
gamma-BHC (Lindane)	51	50	68 - 136	3	30	F1	F1
Heptachlor	87	82	68 - 132	6	30		
Heptachlor epoxide	63	60	72 - 131	5	30	F1	F1
Methoxychlor	14	15	63 - 135	2	30	F1 p	p F1
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	92		84	69 - 150			
Tetrachloro-m-xylene	104		94	74 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-524621

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156630-22  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 1446  
Prep Date: 06/02/2018 1603  
Leach Date: N/A

Analysis Batch: 460-524943  
Prep Batch: 460-524621  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921747.D  
Initial Weight/Volume: 15.0215 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

MSD Lab Sample ID: 460-156630-22  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 1459  
Prep Date: 06/02/2018 1603  
Leach Date: N/A

Analysis Batch: 460-524943  
Prep Batch: 460-524621  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921748.D  
Initial Weight/Volume: 15.0381 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	65	61	67 - 130	6	30	F1	F1
4,4'-DDE	71	67	70 - 127	6	30		F1
4,4'-DDT	77	70	70 - 122	9	30		
Aldrin	89	82	66 - 137	7	30		
alpha-BHC	69	66	65 - 142	6	30		
beta-BHC	39	37	70 - 132	6	30	F1	F1
delta-BHC	12	15	65 - 136	24	30	F1	F1
Dieldrin	52	48	70 - 134	7	30	F1	F1
Endosulfan I	69	64	70 - 136	8	30	F1	F1
Endosulfan II	4	7	72 - 127	57	30	J F1	F1 F2
Endosulfan sulfate	0	0	71 - 128	NC	30	U F1	U F1
Endrin	59	55	74 - 129	7	30	F1	F1
Endrin aldehyde	0	0	71 - 129	NC	30	U F1	U F1
Endrin ketone	2	3	68 - 135	20	30	J F1	J F1
gamma-BHC (Lindane)	49	47	68 - 136	4	30	F1	F1
Heptachlor	86	79	68 - 132	8	30		
Heptachlor epoxide	62	59	72 - 131	6	30	F1	F1
Methoxychlor	85	79	63 - 135	7	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	86		83	69 - 150			
Tetrachloro-m-xylene	88		91	74 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Method Blank - Batch: 460-524794

### Method: 6010C

### Preparation: 3050B

Lab Sample ID:	MB 460-524794/1-A ^2	Analysis Batch:	460-525282	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-524794	Lab File ID:	525230D1.asc
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	06/05/2018 1251	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/03/2018 1940				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	4.1	20.0
Antimony	2.0	U	0.24	2.0
Arsenic	1.5	U	0.37	1.5
Barium	20.0	U	1.6	20.0
Beryllium	0.20	U	0.023	0.20
Cadmium	0.40	U	0.060	0.40
Calcium	500	U	51.0	500
Chromium	1.0	U	0.28	1.0
Cobalt	5.0	U	0.57	5.0
Copper	2.5	U	0.57	2.5
Iron	15.0	U	2.7	15.0
Lead	1.0	U	0.30	1.0
Magnesium	500	U	38.6	500
Manganese	1.5	U	0.16	1.5
Nickel	4.0	U	0.38	4.0
Potassium	500	U	26.6	500
Selenium	2.0	U	0.61	2.0
Silver	1.0	U	0.15	1.0
Sodium	500	U	38.5	500
Thallium	2.0	U	0.59	2.0
Vanadium	5.0	U	0.60	5.0
Zinc	3.0	U	0.26	3.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### LCS-Certified Reference Material - Batch: 460-524794

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-524794/2-~~A~~ Analysis Batch: 460-525282  
 Client Matrix: Solid Prep Batch: 460-524794  
 Dilution: 4.0 Leach Batch: N/A  
 Analysis Date: 06/05/2018 1236 Units: mg/Kg  
 Prep Date: 06/03/2018 1940  
 Leach Date: N/A

Instrument ID: ICP5  
 Lab File ID: 525230D1.asc  
 Initial Weight/Volume: 1.01 g  
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	8720	7325	84.0	51.7 - 147.9	
Antimony	94.1	62.91	66.9	0.1 - 206.2	
Arsenic	58.5	56.02	95.8	82.6 - 117.4	
Barium	183	193.2	105.6	82.0 - 118.6	
Beryllium	59.7	58.30	97.6	82.6 - 117.6	
Cadmium	249	247.7	99.5	82.3 - 118.1	
Calcium	4600	4358	94.7	81.1 - 118.9	
Chromium	64.9	63.98	98.6	81.4 - 118.6	
Cobalt	45.0	47.49	105.5	83.6 - 116.4	
Copper	113	111.3	98.5	82.7 - 116.8	
Iron	13600	12760	93.8	58.8 - 141.2	
Lead	161	173.8	108.0	81.4 - 118.6	
Magnesium	2310	2030	87.9	75.8 - 124.2	
Manganese	219	215.6	98.5	81.7 - 118.7	
Nickel	147	156.9	106.7	82.3 - 118.4	
Potassium	2030	1690	83.2	70.0 - 130.0	
Selenium	145	143.1	98.7	77.9 - 121.4	
Silver	51.0	49.47	97.0	78.6 - 121.4	
Sodium	2430	2228	91.7	73.3 - 126.3	
Thallium	188	201.4	107.1	79.8 - 119.7	
Vanadium	125	118.1	94.4	78.3 - 121.6	
Zinc	121	121.9	100.7	80.2 - 119.0	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-524794

Method: 6010C  
Preparation: 3050B

MS Lab Sample ID: 460-157001-B-1-K MS ^4  
Client Matrix: Solid  
Dilution: 4.0  
Analysis Date: 06/05/2018 1220  
Prep Date: 06/03/2018 1940  
Leach Date: N/A

Analysis Batch: 460-525282  
Prep Batch: 460-524794  
Leach Batch: N/A

Instrument ID: ICP5  
Lab File ID: 525230D1.asc  
Initial Weight/Volume: 1.27 g  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 460-157001-B-1-L MSD ^4  
Client Matrix: Solid  
Dilution: 4.0  
Analysis Date: 06/05/2018 1217  
Prep Date: 06/03/2018 1940  
Leach Date: N/A

Analysis Batch: 460-525282  
Prep Batch: 460-524794  
Leach Batch: N/A

Instrument ID: ICP5  
Lab File ID: 525230D1.asc  
Initial Weight/Volume: 1.26 g  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aluminum	673	649	75 - 125	1	20	4	4
Antimony	53	54	75 - 125	3	20	F1	F1
Arsenic	96	97	75 - 125	2	20		
Barium	109	110	75 - 125	2	20		
Beryllium	100	101	75 - 125	2	20		
Cadmium	103	105	75 - 125	3	20		
Calcium	97	124	75 - 125	13	20		
Chromium	109	112	75 - 125	3	20		
Cobalt	109	110	75 - 125	2	20		
Copper	104	106	75 - 125	2	20		
Iron	1575	-7	75 - 125	19	20	4	4
Lead	106	109	75 - 125	2	20		
Magnesium	99	98	75 - 125	0	20		
Manganese	118	109	75 - 125	2	20		
Nickel	107	108	75 - 125	1	20		
Potassium	94	96	75 - 125	3	20		
Selenium	99	101	75 - 125	3	20		
Silver	99	98	75 - 125	0	20		
Sodium	96	98	75 - 125	3	20		
Thallium	108	108	75 - 125	1	20		
Vanadium	106	102	75 - 125	2	20		
Zinc	108	108	75 - 125	0	20		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Duplicate - Batch: 460-524794**

**Method: 6010C**

**Preparation: 3050B**

Lab Sample ID:	460-157001-A-1-V DU ^4	Analysis Batch:	460-525282	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-524794	Lab File ID:	525230D1.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.20 g
Analysis Date:	06/05/2018 1224	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/03/2018 1940				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Cadmium	0.82 U	0.83	NC	20	U
Chromium	7.3	6.26	15	20	
Lead	36.2	35.49	2	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Method Blank - Batch: 460-524795

### Method: 6010C

### Preparation: 3050B

Lab Sample ID: MB 460-524795/1-A ^2  
 Client Matrix: Solid  
 Dilution: 2.0  
 Analysis Date: 06/06/2018 1633  
 Prep Date: 06/03/2018 1940  
 Leach Date: N/A

Analysis Batch: 460-525595  
 Prep Batch: 460-524795  
 Leach Batch: N/A  
 Units: mg/Kg

Instrument ID: ICP5  
 Lab File ID: 525552D1.asc  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	4.1	20.0
Antimony	2.0	U	0.24	2.0
Arsenic	1.5	U	0.37	1.5
Barium	20.0	U	1.6	20.0
Beryllium	0.20	U	0.023	0.20
Cadmium	0.40	U	0.060	0.40
Calcium	500	U	51.0	500
Chromium	1.0	U	0.28	1.0
Cobalt	5.0	U	0.57	5.0
Copper	2.5	U	0.57	2.5
Iron	15.0	U	2.7	15.0
Lead	1.0	U	0.30	1.0
Magnesium	500	U	38.6	500
Manganese	1.5	U	0.16	1.5
Nickel	4.0	U	0.38	4.0
Potassium	500	U	26.6	500
Selenium	2.0	U	0.61	2.0
Silver	1.0	U	0.15	1.0
Sodium	500	U	38.5	500
Thallium	2.0	U	0.59	2.0
Vanadium	5.0	U	0.60	5.0
Zinc	3.0	U	0.26	3.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### LCS-Certified Reference Material - Batch: 460-524795

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-524795/2-~~A~~ Analysis Batch: 460-525595  
 Client Matrix: Solid Prep Batch: 460-524795  
 Dilution: 4.0 Leach Batch: N/A  
 Analysis Date: 06/06/2018 1637 Units: mg/Kg  
 Prep Date: 06/03/2018 1940  
 Leach Date: N/A

Instrument ID: ICP5  
 Lab File ID: 525552D1.asc  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	8720	7528	86.3	51.7 - 147.9	
Antimony	94.1	66.18	70.3	0.1 - 206.2	
Arsenic	58.5	60.20	102.9	82.6 - 117.4	
Barium	183	201.8	110.3	82.0 - 118.6	
Beryllium	59.7	61.78	103.5	82.6 - 117.6	
Cadmium	249	264.4	106.2	82.3 - 118.1	
Calcium	4600	4748	103.2	81.1 - 118.9	
Chromium	64.9	69.54	107.1	81.4 - 118.6	
Cobalt	45.0	49.86	110.8	83.6 - 116.4	
Copper	113	118.7	105.0	82.7 - 116.8	
Iron	13600	13880	102.1	58.8 - 141.2	
Lead	161	188.4	117.0	81.4 - 118.6	
Magnesium	2310	2202	95.3	75.8 - 124.2	
Manganese	219	238.8	109.0	81.7 - 118.7	
Nickel	147	166.8	113.5	82.3 - 118.4	
Potassium	2030	1763	86.8	70.0 - 130.0	
Selenium	145	154.3	106.4	77.9 - 121.4	
Silver	51.0	52.82	103.6	78.6 - 121.4	
Sodium	2430	2376	97.8	73.3 - 126.3	
Thallium	188	208.4	110.9	79.8 - 119.7	
Vanadium	125	126.4	101.1	78.3 - 121.6	
Zinc	121	133.5	110.4	80.2 - 119.0	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Matrix Spike - Batch: 460-524795

Method: 6010C  
Preparation: 3050B

Lab Sample ID:	460-156722-A-53-D MS ^	Analysis Batch:	460-525595	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-524795	Lab File ID:	525552D1.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.31 g
Analysis Date:	06/06/2018 1644	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/03/2018 1940				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	3660		161	4046	238	75 - 125	4
Antimony	3.2	U	40.2	26.69	66	75 - 125	F1
Arsenic	1.4	J	161	160.9	99	75 - 125	
Barium	9.3	J	161	189.7	112	75 - 125	
Beryllium	0.14	J	4.02	4.28	103	75 - 125	
Cadmium	0.63	U	4.02	4.35	108	75 - 125	
Calcium	521	J	1610	2217	105	75 - 125	
Chromium	11.3		16.1	31.67	127	75 - 125	F1
Cobalt	3.9	J	40.2	48.95	112	75 - 125	
Copper	4.1		20.1	25.35	105	75 - 125	
Iron	5350		80.4	5506	192	75 - 125	4
Lead	8.7		40.2	53.05	110	75 - 125	
Magnesium	185	J	1610	1869	105	75 - 125	
Manganese	315		40.2	337.0	55	75 - 125	4
Nickel	4.4	J	40.2	48.95	111	75 - 125	
Potassium	52.0	J	1610	1622	98	75 - 125	
Selenium	3.2	U	161	164.4	102	75 - 125	
Silver	1.6	U	4.02	4.02	100	75 - 125	
Sodium	792	U	1610	1631	101	75 - 125	
Thallium	3.2	U	161	173.7	108	75 - 125	
Vanadium	7.4	J	40.2	50.32	107	75 - 125	
Zinc	18.8		40.2	66.47	119	75 - 125	

### Duplicate - Batch: 460-524795

Method: 6010C  
Preparation: 3050B

Lab Sample ID:	460-156722-A-53-C DU ^	Analysis Batch:	460-525595	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-524795	Lab File ID:	525552D1.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.36 g
Analysis Date:	06/06/2018 1648	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/03/2018 1940				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Cadmium	0.63	U	0.62	NC	20	U
Chromium	11.3		11.69	3	20	
Lead	8.7		7.17	19	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Method Blank - Batch: 460-525218

### Method: 6010C

### Preparation: 3050B

Lab Sample ID: MB 460-525218/1-A ^2  
Client Matrix: Solid  
Dilution: 2.0  
Analysis Date: 06/05/2018 2205  
Prep Date: 06/05/2018 0811  
Leach Date: N/A

Analysis Batch: 460-525282  
Prep Batch: 460-525218  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP5  
Lab File ID: 525230D1.asc  
Initial Weight/Volume: 1.00 g  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	4.1	20.0
Antimony	2.0	U	0.24	2.0
Arsenic	1.5	U	0.37	1.5
Barium	20.0	U	1.6	20.0
Beryllium	0.20	U	0.023	0.20
Cadmium	0.40	U	0.060	0.40
Calcium	500	U	51.0	500
Chromium	1.0	U	0.28	1.0
Cobalt	5.0	U	0.57	5.0
Copper	2.5	U	0.57	2.5
Iron	15.0	U	2.7	15.0
Lead	1.0	U	0.30	1.0
Magnesium	500	U	38.6	500
Manganese	1.5	U	0.16	1.5
Nickel	4.0	U	0.38	4.0
Potassium	500	U	26.6	500
Selenium	2.0	U	0.61	2.0
Silver	1.0	U	0.15	1.0
Sodium	500	U	38.5	500
Thallium	2.0	U	0.59	2.0
Vanadium	5.0	U	0.60	5.0
Zinc	3.0	U	0.26	3.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### LCS-Certified Reference Material - Batch: 460-525218

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-525218/2-~~A~~ Analysis Batch: 460-525282  
 Client Matrix: Solid Prep Batch: 460-525218  
 Dilution: 4.0 Leach Batch: N/A  
 Analysis Date: 06/05/2018 2150 Units: mg/Kg  
 Prep Date: 06/05/2018 0811  
 Leach Date: N/A

Instrument ID: ICP5  
 Lab File ID: 525230D1.asc  
 Initial Weight/Volume: 1.02 g  
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	8720	7545	86.5	51.7 - 147.9	
Antimony	94.1	57.47	61.1	0.1 - 206.2	
Arsenic	58.5	57.24	97.8	82.6 - 117.4	
Barium	183	192.7	105.3	82.0 - 118.6	
Beryllium	59.7	60.00	100.5	82.6 - 117.6	
Cadmium	249	253.1	101.7	82.3 - 118.1	
Calcium	4600	4545	98.8	81.1 - 118.9	
Chromium	64.9	65.37	100.7	81.4 - 118.6	
Cobalt	45.0	47.88	106.4	83.6 - 116.4	
Copper	113	109.9	97.3	82.7 - 116.8	
Iron	13600	12840	94.4	58.8 - 141.2	
Lead	161	176.1	109.4	81.4 - 118.6	
Magnesium	2310	2116	91.6	75.8 - 124.2	
Manganese	219	230.8	105.4	81.7 - 118.7	
Nickel	147	159.9	108.8	82.3 - 118.4	
Potassium	2030	1757	86.6	70.0 - 130.0	
Selenium	145	146.6	101.1	77.9 - 121.4	
Silver	51.0	49.49	97.0	78.6 - 121.4	
Sodium	2430	2249	92.6	73.3 - 126.3	
Thallium	188	205.5	109.3	79.8 - 119.7	
Vanadium	125	122.0	97.6	78.3 - 121.6	
Zinc	121	128.1	105.8	80.2 - 119.0	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Matrix Spike - Batch: 460-525218

**Method: 6010C**  
**Preparation: 3050B**

Lab Sample ID:	460-157224-A-1-F MS ^4	Analysis Batch:	460-525282	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-525218	Lab File ID:	525230D1.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	06/05/2018 2135	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/05/2018 0811				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	16800	224	16950	82	75 - 125	4
Antimony	4.5 U	56.0	25.86	46	75 - 125	F1
Arsenic	6.6	224	212.4	92	75 - 125	
Barium	46.7	224	276.7	103	75 - 125	
Beryllium	0.99	5.60	6.29	95	75 - 125	
Cadmium	0.90 U	5.60	5.06	90	75 - 125	
Calcium	565 J	2240	2700	95	75 - 125	
Chromium	71.1	22.4	51.69	-87	75 - 125	F1
Cobalt	10.3 J	56.0	64.79	97	75 - 125	
Copper	36.7	28.0	66.46	106	75 - 125	
Iron	42700	112	34500	-7320	75 - 125	4
Lead	16.6	56.0	71.46	98	75 - 125	
Magnesium	2330	2240	4081	78	75 - 125	
Manganese	273	56.0	258.8	-26	75 - 125	4
Nickel	15.4	56.0	69.44	97	75 - 125	
Potassium	1350	2240	3226	84	75 - 125	
Selenium	4.5 U	224	207.3	93	75 - 125	
Silver	2.2 U	5.60	4.81	86	75 - 125	
Sodium	1120 U	2240	2142	96	75 - 125	
Thallium	4.5 U	224	236.4	106	75 - 125	
Vanadium	64.8	56.0	114.7	89	75 - 125	
Zinc	37.7	56.0	92.37	98	75 - 125	

### Duplicate - Batch: 460-525218

**Method: 6010C**  
**Preparation: 3050B**

Lab Sample ID:	460-157224-A-1-E DU ^4	Analysis Batch:	460-525282	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-525218	Lab File ID:	525230D1.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	06/05/2018 2138	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/05/2018 0811				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Cadmium	0.90 U	0.91	NC	20	U
Chromium	71.1	33.12	73	20	F3
Lead	16.6	14.28	15	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Method Blank - Batch: 460-524819

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	MB 460-524819/1-A	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524819	Lab File ID:	524808HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	06/04/2018 1134	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0438				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-524819

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	LCSSRM 460-524819/2-A	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524819	Lab File ID:	524808HG1.CSV
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	06/04/2018 0819	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0438				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	11.43	96.8	70.3 - 129.7	

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-524819

**Method: 7471B**  
**Preparation: 7471B**

MS Lab Sample ID:	460-156562-A-6-AL MS	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524819	Lab File ID:	524808HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.63 g
Analysis Date:	06/04/2018 0826			Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0438				
Leach Date:	N/A				

MSD Lab Sample ID:	460-156562-A-6-AM MSD	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524819	Lab File ID:	524808HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.63 g
Analysis Date:	06/04/2018 0832			Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0438				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	111	110	75 - 125	0	20		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Duplicate - Batch: 460-524819**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-156562-A-6-AK DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 0824  
Prep Date: 06/04/2018 0438  
Leach Date: N/A

Analysis Batch: 460-524920  
Prep Batch: 460-524819  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 524808HG1.CSV  
Initial Weight/Volume: 0.63 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.16	0.157	0.7	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Method Blank - Batch: 460-524830

Method: 7471B

Preparation: 7471B

Lab Sample ID: MB 460-524830/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 0923  
Prep Date: 06/04/2018 0509  
Leach Date: N/A

Analysis Batch: 460-524920  
Prep Batch: 460-524830  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 524808HG1.CSV  
Initial Weight/Volume: 0.60 g  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-524830

Method: 7471B

Preparation: 7471B

Lab Sample ID: LCSSRM 460-524830/2-A  
Client Matrix: Solid  
Dilution: 40  
Analysis Date: 06/04/2018 0925  
Prep Date: 06/04/2018 0509  
Leach Date: N/A

Analysis Batch: 460-524920  
Prep Batch: 460-524830  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 524808HG1.CSV  
Initial Weight/Volume: 0.60 g  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	10.65	90.2	70.3 - 129.7	

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 460-524830

Method: 7471B

Preparation: 7471B

MS Lab Sample ID: 460-157003-A-2-V MS  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 0931  
Prep Date: 06/04/2018 0509  
Leach Date: N/A

Analysis Batch: 460-524920  
Prep Batch: 460-524830  
Leach Batch: N/A

Instrument ID: LEEMAN7  
Lab File ID: 524808HG1.CSV  
Initial Weight/Volume: 0.67 g  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 460-157003-A-2-W MSD  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 0934  
Prep Date: 06/04/2018 0509  
Leach Date: N/A

Analysis Batch: 460-524920  
Prep Batch: 460-524830  
Leach Batch: N/A

Instrument ID: LEEMAN7  
Lab File ID: 524808HG1.CSV  
Initial Weight/Volume: 0.67 g  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	106	129	75 - 125	8	20		F1



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Duplicate - Batch: 460-524830**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-157003-A-2-U DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 0929  
Prep Date: 06/04/2018 0509  
Leach Date: N/A

Analysis Batch: 460-524920  
Prep Batch: 460-524830  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 524808HG1.CSV  
Initial Weight/Volume: 0.67 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.19	0.182	5	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

### Method Blank - Batch: 460-525771

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	MB 460-525771/10-A	Analysis Batch:	460-525917	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-525771	Lab File ID:	525771HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	06/07/2018 0823	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/07/2018 0408				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-525771

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	LCSSRM 460-525771/11-	Analysis Batch:	460-525917	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-525771	Lab File ID:	525771HG1.CSV
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	06/07/2018 0824	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/07/2018 0408				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	11.46	97.1	70.3 - 129.7	

### Matrix Spike - Batch: 460-525771

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	460-157617-E-1-C MS	Analysis Batch:	460-525917	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-525771	Lab File ID:	525771HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.66 g
Analysis Date:	06/07/2018 0830	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/07/2018 0408				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.015 J	0.0869	0.106	104	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Duplicate - Batch: 460-525771**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-157617-E-1-B DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/07/2018 0828  
Prep Date: 06/07/2018 0408  
Leach Date: N/A

Analysis Batch: 460-525917  
Prep Batch: 460-525771  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 525771HG1.CSV  
Initial Weight/Volume: 0.66 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.015	J	0.0166	11	20	J



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Duplicate - Batch: 460-524740**

**Method: Moisture  
Preparation: N/A**

Lab Sample ID:	460-157273-D-20 DU	Analysis Batch:	460-524740	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	06/03/2018 1401	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	17.4	16.5	5	20	
Percent Solids	82.6	83.5	1	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156630-2

**Duplicate - Batch: 460-524955**

**Method: Moisture  
Preparation: N/A**

Lab Sample ID:	460-157174-A-10 DU	Analysis Batch:	460-524955	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	06/04/2018 1536	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	17.2	16.3	5	20	
Percent Solids	82.8	83.7	1	20	



# TestAmerica



NYSC  
460501

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

460-156630 Chain of Custody

ANALYSIS REQUEST

Page 1 of 4

Name (for report and invoice) <b>Jennifer Lewis</b>		Samples Name (Printed) <b>Nick Iannucci</b>		Site/Project Identification <b>RSL1801</b>	
Company <b>PJ Grosser Consulting</b>		P. O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other:	
Address <b>630 Johnson Ave Ste 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 5-day		Regulatory Program:	
City <b>Bohemia</b>		State <b>NY</b>		LAB USE ONLY Job No: <b>166636</b> Project No:	
Phone <b>(631) 589-6353</b>		Fax		Sample Numbers	
Sample Identification	Date	Time	Matrix	Cont.	No. of
55-011 (0-3")	5/21/18	850	3	6	1
55-011 (18"-24")		905		6	2
55-012 (0-3")		920		1	3
55-013 (0-3")		935		1	4
55-014 (0-3")		950		1	6
55-015 (0-3")		1015		1	6
55-016 (0-3")		1030		1	7
55-017 (0-3")		1045		1	8
55-018 (0-3")		1050		1	9
55-018 (0-3")		1105		1	10

Preservation Used: 1 = ICE, 2 = HCl, 3 = H<sub>2</sub>SO<sub>4</sub>, 4 = HNO<sub>3</sub>, 5 = NaOH  
Soil: ☐ Water: ☐

6 = Other ☐ 7 = Other ☐

SHORT  
HOLD

## Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by <i>[Signature]</i>	Company <b>PWSC</b>	Date / Time <b>5/21/18 10:46</b>	Received by <i>[Signature]</i>	Company <b>PWSC</b>
Relinquished by <i>[Signature]</i>	Company <b>PWSC</b>	Date / Time <b>5/21/18 11:17</b>	Received by <i>[Signature]</i>	Company <b>PWSC</b>
Relinquished by <i>[Signature]</i>	Company <b>PWSC</b>	Date / Time <b>5/21/18 12:00</b>	Received by <i>[Signature]</i>	Company <b>PWSC</b>
Relinquished by <i>[Signature]</i>	Company <b>PWSC</b>	Date / Time <b>5/21/18 12:00</b>	Received by <i>[Signature]</i>	Company <b>PWSC</b>

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0814)



# TestAmerica

NYSC  
460501

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 2 of 4

Name (for report and invoice) <b>Jennifer Lewis</b>		Samplers Name (Printed) <b>Nick Iannucci</b>		Site/Project Identification <b>PSL1801</b>	
Company <b>PWGL</b>		P. O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>	
Address <b>630 Johnson Ave Ste. 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> <b>5-day</b>		Regulatory Program:	
City <b>Bohemia</b>		State <b>NY</b>		LAB USE ONLY Job No: <b>166630</b>	
Phone <b>(631) 589-6353</b>		Fax		Project No:	
Sample Identification	Date	Time	Matrix	No. of Cont.	Sample Numbers
<b>35.019 (0-3")</b>	<b>5/21/18</b>	<b>1125</b>	<b>S</b>	<b>6</b>	<b>11</b>
<b>35.020 (0-3")</b>		<b>1245</b>		<b>1</b>	<b>12</b>
<b>35.021 (0-3")</b>		<b>1320</b>		<b>6</b>	<b>13</b>
<b>35.021 (18"-24")</b>		<b>1325</b>		<b>1</b>	<b>14</b>
<b>35.022 (0-3")</b>		<b>1340</b>		<b>6</b>	<b>15</b>
<b>35.023 (0-3")</b>		<b>1350</b>		<b>1</b>	<b>16</b>
<b>35.023 (18"-24")</b>		<b>1355</b>		<b>6</b>	<b>17</b>
<b>35.024 (0-3")</b>		<b>1415</b>		<b>6</b>	<b>18</b>
<b>DUP-002</b>		<b>XX</b>		<b>6</b>	<b>19</b>
<b>EB-002</b>		<b>1430</b>	<b>W</b>	<b>12</b>	<b>20</b>
Preservation Used: 1 = ICE, 2 = HCl, 3 = H <sub>2</sub> SO <sub>4</sub> , 4 = HNO <sub>3</sub> , 5 = NaOH 6 = Other _____, 7 = Other _____					
Soil: _____ Water: _____					

### Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by 	Company <b>PWGL</b>	Date / Time <b>5/21/18 1640</b>	Received by <b>1) JS</b>	Company <b>PSL</b>
Relinquished by 	Company <b>PSL</b>	Date / Time <b>5/21/18 1133</b>	Received by <b>2) JS</b>	Company <b>PSL</b>
Relinquished by 	Company <b>PSL</b>	Date / Time <b>5/21/18 1230</b>	Received by <b>3) J. Iannucci</b>	Company <b>PSL</b>
Relinquished by 	Company <b>PSL</b>	Date / Time <b>5/21/18 1230</b>	Received by <b>4) J. Iannucci</b>	Company <b>PSL</b>

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)



777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 3 of 4

Page 3 of 4

Page 66 of 69

## Water Metals Filtered (Yes/No)?

TAL - 0016 (0814)

Massachusetts (M-NJ312), North Carolina (No. 578)



# TestAmerica

NYSC  
460501

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 4 of 4

Name (for report and invoice) <b>Jennifer Lewis</b>		Samplers Name (Printed) <b>Nick Lannucci</b>		Site/Project Identification <b>PSL1801</b>	
Company <b>PWGC</b>		P. O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other:	
Address <b>630 Johnson Ave. Ste. 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> <b>HON</b>		ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)	
City <b>Bohemia</b> State <b>NY</b>		Phone <b>(631) 589-6353</b> Fax		<input checked="" type="checkbox"/> Pest <input checked="" type="checkbox"/> Herb <input checked="" type="checkbox"/> TAL Metals <input checked="" type="checkbox"/> Mercury	
Sample Identification	Date	Time	Matrix	No. of Cont.	LAB USE ONLY
55.012 (18"-24")	5/24/18	925	S	1	Project No: Job No: <b>166636</b>
55.013 (18"-24")		940			Sample Numbers <b>22</b>
55.014 (18"-24")		1000			<b>23</b>
55.015 (18"-24")		1020			<b>24</b>
55.016 (18"-24")		1035			<b>25</b>
55.018 (18"-24")		1050			<b>26</b>
55.019 (18"-24")		1130			<b>27</b>
55.020 (18"-24")		1250			<b>28</b>
55.022 (18"-24")		1345			<b>29</b>
55.023 (18"-24")		1420			<b>30</b>
					<b>31</b>

Preservation Used: 1 = ICE, 2 = HCl, 3 = H<sub>2</sub>SO<sub>4</sub>, 4 = HNO<sub>3</sub>, 5 = NaOH  
Soil: ☐ Water: ☐  
6 = Other ☐ 7 = Other ☐

Special Instructions **HOLD ALL SAMPLES ON THIS CHAIN** Water Metals Filtered (Yes/No)?

Relinquished by 	Company <b>PWGC</b>	Date / Time <b>5/24/18 1640</b>	Received by <b>JS</b>	Company <b>TR</b>
Relinquished by 	Company <b>TR</b>	Date / Time <b>5/24/18 1640</b>	Received by <b>JS</b>	Company <b>TR</b>
Relinquished by 	Company <b>TR</b>	Date / Time <b>5/24/18 1640</b>	Received by <b>JS</b>	Company <b>TR</b>
Relinquished by 	Company <b>TR</b>	Date / Time <b>5/24/18 1640</b>	Received by <b>JS</b>	Company <b>TR</b>
Relinquished by 	Company <b>TR</b>	Date / Time <b>5/24/18 1640</b>	Received by <b>JS</b>	Company <b>TR</b>



166630

[illegible]

EDS-M-038, Rev 4, 06/09/2014



## Login Sample Receipt Checklist

Client: PW Grosser Consulting

Job Number: 460-156630-2

Login Number: 156630

List Source: TestAmerica Edison

List Number: 1

Creator: Meyers, Gary

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

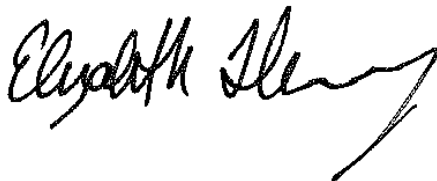


## ANALYTICAL REPORT

Job Number: 460-156722-1

Job Description: RSL1801 - Island Hills Golf Course

For:  
PW Grosser Consulting  
630 Johnson Ave  
Suite 7  
Bohemia, NY 11716  
Attention: Ms. Jennifer Lewis



Approved for release.  
Elizabeth J Flannery  
Project Manager I  
6/8/2018 5:14 PM

---

Designee for  
Melissa Haas, Project Manager I  
777 New Durham Road, Edison, NJ, 08817  
(203)944-1310  
melissa.haas@testamericainc.com  
06/08/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LA000132

**TestAmerica Laboratories, Inc.**

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817  
Tel (732) 549-3900 Fax (732) 549-3679 [www.testamericainc.com](http://www.testamericainc.com)





## CASE NARRATIVE

**Client: PW Grosser Consulting**

**Project: RSL1801 - Island Hills Golf Course**

**Report Number: 460-156722-1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 5/22/2018 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

### **Receipt Exceptions**

Chain of Custody page 3 of 8 is a duplicate of page 2, No analysis added to samples #21-#30 since these samples are logged in as samples #11-#20.

The Chain-of-Custody (COC) was improperly completed. The sample IDs should have hyphens instead of periods (i.e. SS-032 instead of SS.032)

The following samples were activated by the client on 6/1/18 for select metals and pesticide analysis: SS-025 (18"-24") (460-156722-42), SS-026 (18"-24") (460-156722-43), SS-028 (18"-24") (460-156722-44), SS-033 (18"-24") (460-156722-48), SS-035 (18"-24") (460-156722-49), SS-039 (18"-24") (460-156722-51), SS-042 (18"-24") (460-156722-53), SS-044 (18"-24") (460-156722-54), SS-001 (18"-24") (460-156722-56), SS-002 (18"-24") (460-156722-57), SS-005 (18"-24") (460-156722-59), SS-006 (18"-24") (460-156722-60), SS-008 (18"-24") (460-156722-61), SS-009 (18"-24") (460-156722-62) and SS-010 (18"-24") (460-156722-63).

Remaining holds were cancelled by the client on 6/8/18.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

### **PESTICIDES**

Samples SS-025 (0-3") (460-156722-1), SS-026 (0-3") (460-156722-2), SS-027 (0-3") (460-156722-3), SS-027 (18"-24") (460-156722-4), SS-028 (0-3") (460-156722-5), SS-029 (0-3") (460-156722-6), SS-030 (0-3") (460-156722-7), SS-031 (0-3") (460-156722-8), SS-031 (18"-24") (460-156722-9), SS-032 (0-3") (460-156722-10), SS-033 (0-3") (460-156722-11), SS-034 (0-3") (460-156722-12), SS-034 (18"-24") (460-156722-13), SS-035 (0-3") (460-156722-14), SS-036 (0-3") (460-156722-15), SS-036 (18"-24") (460-156722-16), SS-037 (0-3") (460-156722-17), SS-038 (0-3") (460-156722-18), SS-038 (18"-24") (460-156722-19), SS-039 (0-3") (460-156722-20), SS-040 (0-3") (460-156722-31), SS-041 (0-3") (460-156722-32), SS-041 (18"-24") (460-156722-33), SS-042 (0-3") (460-156722-34), SS-043 (0-3") (460-156722-35), SS-043 (18"-24") (460-156722-36), SS-044 (0-3") (460-156722-37), SS-045 (0-3") (460-156722-38), SS-007 (18"-24") (460-156722-39), Dup-003 (460-156722-40), Dup-004 (460-156722-41), SS-025 (18"-24") (460-156722-42), SS-026 (18"-24") (460-156722-43), SS-028 (18"-24") (460-156722-44), SS-033 (18"-24") (460-156722-48), SS-035 (18"-24") (460-156722-49), SS-039 (18"-24") (460-156722-51), SS-042 (18"-24") (460-156722-53), SS-044 (18"-24") (460-156722-54), SS-001 (18"-24") (460-156722-56), SS-002 (18"-24") (460-156722-57), SS-005 (18"-24") (460-156722-59), SS-006 (18"-24") (460-156722-60), SS-008 (18"-24") (460-156722-61), SS-009 (18"-24") (460-156722-62) and SS-010 (18"-24") (460-156722-63) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 05/25/2018, 05/28/2018 and 06/02/2018 and analyzed on 05/29/2018, 05/30/2018, 06/05/2018 and 06/06/2018.

Tetrachloro-m-xylene surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column: SS-031 (0-3") (460-156722-8). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.



DCB Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: SS-041 (0-3") (460-156722-32). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The Tetrachloro-m-xylene surrogate recovery for the following samples was outside acceptance limits (low biased) on the primary column: SS-035 (0-3") (460-156722-14). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The %RPD between the primary and confirmation column exceeded 40% for Chlordane (technical) for the following samples: SS-002 (18"-24") (460-156722-57), SS-005 (18"-24") (460-156722-59), SS-006 (18"-24") (460-156722-60) and SS-009 (18"-24") (460-156722-62). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for SS-034 (0-3") (460-156722-12). DCB Decachlorobiphenyl failed the surrogate recovery criteria high for SS-041 (0-3") (460-156722-32). DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for SS-028 (0-3") (460-156722-5). Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MS of sample SS-025 (0-3")MS (460-156722-1) in batch 460-523330. Several analytes failed the recovery criteria low for the MSD of sample SS-025 (0-3")MSD (460-156722-1) in batch 460-523330. Endosulfan II and Endosulfan sulfate exceeded the RPD limit.

4,4'-DDT and Heptachlor epoxide failed the recovery criteria high for the MSD of sample SS-025 (18"-24")MSD (460-156722-42) in batch 460-525493.

Refer to the QC report for details.

Samples SS-026 (0-3") (460-156722-2)[10X], SS-028 (0-3") (460-156722-5)[50X], SS-034 (0-3") (460-156722-12)[20X], SS-035 (0-3") (460-156722-14)[5X], SS-039 (0-3") (460-156722-20)[5X] and Dup-003 (460-156722-40)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

#### **CHLORINATED HERBICIDES**

Samples SS-025 (0-3") (460-156722-1), SS-026 (0-3") (460-156722-2), SS-027 (0-3") (460-156722-3), SS-027 (18"-24") (460-156722-4), SS-028 (0-3") (460-156722-5), SS-029 (0-3") (460-156722-6), SS-030 (0-3") (460-156722-7), SS-031 (0-3") (460-156722-8), SS-031 (18"-24") (460-156722-9), SS-032 (0-3") (460-156722-10), SS-033 (0-3") (460-156722-11), SS-034 (0-3") (460-156722-12), SS-034 (18"-24") (460-156722-13), SS-035 (0-3") (460-156722-14), SS-036 (0-3") (460-156722-15), SS-036 (18"-24") (460-156722-16), SS-037 (0-3") (460-156722-17), SS-038 (0-3") (460-156722-18), SS-038 (18"-24") (460-156722-19), SS-039 (0-3") (460-156722-20), SS-040 (0-3") (460-156722-31), SS-041 (0-3") (460-156722-32), SS-041 (18"-24") (460-156722-33), SS-042 (0-3") (460-156722-34), SS-043 (0-3") (460-156722-35), SS-043 (18"-24") (460-156722-36), SS-044 (0-3") (460-156722-37), SS-045 (0-3") (460-156722-38), SS-007 (18"-24") (460-156722-39), Dup-003 (460-156722-40) and Dup-004 (460-156722-41) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 05/25/2018 and 05/26/2018 and analyzed on 05/25/2018, 05/26/2018 and 05/29/2018.

The continuing calibration verification (CCV) associated with batch 522539 recovered above the upper control limit for Dalapon, Dinoseb and MCPA on the primary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 522539 recovered above the upper control limit for 2,4-DB, Dalapon, Dinoseb and MCPP on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 522536 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 523232 recovered above the upper control limit for Silvex (2,4,5-TP). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The closing continuing calibration verification (CCVC) associated with batch 522539 recovered above the upper control limit for Silvex (2,4,5-TP) on the primary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) for 522380 recovered outside control limits for the following analytes: MCPP. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

2,4-Dichlorophenylacetic acid surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: SS-042 (0-3") (460-156722-34). The recovery is within acceptance limits on the other



column, indicating that the extraction process was in control.

Surrogate 2,4-Dichlorophenylacetic acid recovery for the following LCS was outside the upper control limit: (LCS 460-522752/2-A). Samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed: (LCS 460-522752/2-A).

2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for SS-042 (0-3") (460-156722-34). 2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for LCS 460-522752/2-A. 2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for 460-156504-A-2-B MS. 2,4-Dichlorophenylacetic acid failed the surrogate recovery criteria high for 460-156504-A-2-C MSD.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL METALS (ICP)**

Samples SS-025 (0-3") (460-156722-1), SS-026 (0-3") (460-156722-2), SS-027 (0-3") (460-156722-3), SS-027 (18"-24") (460-156722-4), SS-028 (0-3") (460-156722-5), SS-029 (0-3") (460-156722-6), SS-030 (0-3") (460-156722-7), SS-031 (0-3") (460-156722-8), SS-031 (18"-24") (460-156722-9), SS-032 (0-3") (460-156722-10), SS-033 (0-3") (460-156722-11), SS-034 (0-3") (460-156722-12), SS-034 (18"-24") (460-156722-13), SS-035 (0-3") (460-156722-14), SS-036 (0-3") (460-156722-15), SS-036 (18"-24") (460-156722-16), SS-037 (0-3") (460-156722-17), SS-038 (0-3") (460-156722-18), SS-038 (18"-24") (460-156722-19), SS-039 (0-3") (460-156722-20), SS-040 (0-3") (460-156722-31), SS-041 (0-3") (460-156722-32), SS-041 (18"-24") (460-156722-33), SS-042 (0-3") (460-156722-34), SS-043 (0-3") (460-156722-35), SS-043 (18"-24") (460-156722-36), SS-044 (0-3") (460-156722-37), SS-045 (0-3") (460-156722-38), SS-007 (18"-24") (460-156722-39), Dup-003 (460-156722-40), Dup-004 (460-156722-41), SS-026 (18"-24") (460-156722-43), SS-028 (18"-24") (460-156722-44), SS-033 (18"-24") (460-156722-48), SS-035 (18"-24") (460-156722-49), SS-039 (18"-24") (460-156722-51), SS-042 (18"-24") (460-156722-53), SS-001 (18"-24") (460-156722-56), SS-002 (18"-24") (460-156722-57), SS-005 (18"-24") (460-156722-59), SS-008 (18"-24") (460-156722-61), SS-009 (18"-24") (460-156722-62) and SS-010 (18"-24") (460-156722-63) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 05/29/2018, 05/30/2018 and 06/03/2018 and analyzed on 05/30/2018, 05/31/2018 and 06/06/2018.

Aluminum, Iron and Manganese failed the recovery criteria low for the MS/MSD of sample 460-155425-1 in batch 460-523625.

Aluminum and Iron failed the recovery criteria high for the MS of sample SS-036 (18"-24")MS (460-156722-16) in batch 460-523625.

Antimony and Manganese failed the recovery criteria low for the MS of sample SS-042 (18"-24")MS (460-156722-53) in batch 460-525595. Aluminum, Chromium and Iron failed the recovery criteria high.

Aluminum, Barium, Beryllium, Cobalt, Lead and Nickel exceeded the RPD limit for the duplicate of sample SS-036 (18"-24")DU (460-156722-16). for the duplicate of sample SS-042 (18"-24")DU (460-156722-53). Refer to the QC report for details.

Samples SS-025 (0-3") (460-156722-1)[4X], SS-026 (0-3") (460-156722-2)[4X], SS-027 (0-3") (460-156722-3)[4X], SS-027 (18"-24") (460-156722-4)[4X], SS-028 (0-3") (460-156722-5)[4X], SS-029 (0-3") (460-156722-6)[4X], SS-030 (0-3") (460-156722-7)[4X], SS-031 (0-3") (460-156722-8)[4X], SS-031 (18"-24") (460-156722-9)[4X], SS-032 (0-3") (460-156722-10)[4X], SS-033 (0-3") (460-156722-11)[4X], SS-034 (0-3") (460-156722-12)[4X], SS-034 (18"-24") (460-156722-13)[4X], SS-035 (0-3") (460-156722-14)[4X], SS-036 (0-3") (460-156722-15)[4X], SS-036 (18"-24") (460-156722-16)[4X], SS-037 (0-3") (460-156722-17)[4X], SS-038 (0-3") (460-156722-18)[4X], SS-038 (18"-24") (460-156722-19)[4X], SS-039 (0-3") (460-156722-20)[4X], SS-040 (0-3") (460-156722-31)[4X], SS-041 (0-3") (460-156722-32)[4X], SS-041 (18"-24") (460-156722-33)[4X], SS-042 (0-3") (460-156722-34)[4X], SS-043 (0-3") (460-156722-35)[4X], SS-043 (18"-24") (460-156722-36)[4X], SS-044 (0-3") (460-156722-37)[4X], SS-045 (0-3") (460-156722-38)[4X], SS-007 (18"-24") (460-156722-39)[4X], Dup-003 (460-156722-40)[4X], Dup-004 (460-156722-41)[4X], SS-026 (18"-24") (460-156722-43)[4X], SS-028 (18"-24") (460-156722-44)[4X], SS-033 (18"-24") (460-156722-48)[4X], SS-035 (18"-24") (460-156722-49)[4X], SS-039 (18"-24") (460-156722-51)[4X], SS-042 (18"-24") (460-156722-53)[4X], SS-001 (18"-24") (460-156722-56)[4X], SS-002 (18"-24") (460-156722-57)[4X], SS-005 (18"-24") (460-156722-59)[4X], SS-008 (18"-24") (460-156722-61)[4X], SS-009 (18"-24") (460-156722-62)[4X] and SS-010 (18"-24") (460-156722-63)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Total Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY**

Samples SS-025 (0-3") (460-156722-1), SS-026 (0-3") (460-156722-2), SS-027 (0-3") (460-156722-3), SS-027 (18"-24") (460-156722-4), SS-028 (0-3") (460-156722-5), SS-029 (0-3") (460-156722-6), SS-030 (0-3") (460-156722-7), SS-031 (0-3") (460-156722-8), SS-031 (18"-24") (460-156722-9), SS-032 (0-3") (460-156722-10), SS-033 (0-3") (460-156722-11), SS-034 (0-3") (460-156722-12), SS-034 (18"-24") (460-156722-13), SS-035 (0-3") (460-156722-14), SS-036 (0-3") (460-156722-15), SS-036 (18"-24") (460-156722-16), SS-037 (0-3") (460-156722-17), SS-038 (0-3") (460-156722-18), SS-038 (18"-24") (460-156722-19), SS-039 (0-3") (460-156722-20), SS-040 (0-3") (460-156722-31), SS-041 (0-3") (460-156722-32), SS-041 (18"-24") (460-156722-33), SS-042 (0-3") (460-156722-34), SS-043 (0-3") (460-156722-35), SS-043 (18"-24") (460-156722-36), SS-044 (0-3") (460-156722-37), SS-045 (0-3") (460-156722-38), SS-007



(18"-24") (460-156722-39), Dup-003 (460-156722-40), Dup-004 (460-156722-41), SS-025 (18"-24") (460-156722-42), SS-026 (18"-24") (460-156722-43), SS-028 (18"-24") (460-156722-44), SS-033 (18"-24") (460-156722-48), SS-035 (18"-24") (460-156722-49), SS-039 (18"-24") (460-156722-51), SS-042 (18"-24") (460-156722-53), SS-044 (18"-24") (460-156722-54), SS-001 (18"-24") (460-156722-56), SS-002 (18"-24") (460-156722-57), SS-005 (18"-24") (460-156722-59), SS-006 (18"-24") (460-156722-60), SS-008 (18"-24") (460-156722-61), SS-009 (18"-24") (460-156722-62) and SS-010 (18"-24") (460-156722-63) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 05/30/2018, 05/31/2018 and 06/04/2018.

Mercury failed the recovery criteria high for the MSD of sample 460-157003-2 in batch 460-524920.

Mercury exceeded the RPD limit for the duplicate of sample 460-156398-1. Refer to the QC report for details.

Samples SS-025 (0-3") (460-156722-1)[5X], SS-026 (0-3") (460-156722-2)[40X], SS-027 (0-3") (460-156722-3)[10X], SS-027 (18"-24") (460-156722-4)[20X], SS-028 (0-3") (460-156722-5)[5X], SS-033 (0-3") (460-156722-11)[20X], SS-034 (0-3") (460-156722-12)[20X], SS-034 (18"-24") (460-156722-13)[2X], SS-035 (0-3") (460-156722-14)[5X], SS-036 (0-3") (460-156722-15)[5X], SS-039 (0-3") (460-156722-20)[5X], SS-041 (0-3") (460-156722-32)[5X], SS-042 (0-3") (460-156722-34)[20X], Dup-003 (460-156722-40)[5X], Dup-004 (460-156722-41)[5X], SS-025 (18"-24") (460-156722-42)[40X], SS-026 (18"-24") (460-156722-43)[40X], SS-001 (18"-24") (460-156722-56)[10X] and SS-010 (18"-24") (460-156722-63)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

#### **PERCENT SOLIDS/PERCENT MOISTURE**

Samples SS-025 (0-3") (460-156722-1), SS-026 (0-3") (460-156722-2), SS-027 (0-3") (460-156722-3), SS-027 (18"-24") (460-156722-4), SS-028 (0-3") (460-156722-5), SS-029 (0-3") (460-156722-6), SS-030 (0-3") (460-156722-7), SS-031 (0-3") (460-156722-8), SS-031 (18"-24") (460-156722-9), SS-032 (0-3") (460-156722-10), SS-033 (0-3") (460-156722-11), SS-034 (0-3") (460-156722-12), SS-034 (18"-24") (460-156722-13), SS-035 (0-3") (460-156722-14), SS-036 (0-3") (460-156722-15), SS-036 (18"-24") (460-156722-16), SS-037 (0-3") (460-156722-17), SS-038 (0-3") (460-156722-18), SS-038 (18"-24") (460-156722-19), SS-039 (0-3") (460-156722-20), SS-040 (0-3") (460-156722-31), SS-041 (0-3") (460-156722-32), SS-041 (18"-24") (460-156722-33), SS-042 (0-3") (460-156722-34), SS-043 (0-3") (460-156722-35), SS-043 (18"-24") (460-156722-36), SS-044 (0-3") (460-156722-37), SS-045 (0-3") (460-156722-38), SS-007 (18"-24") (460-156722-39), Dup-003 (460-156722-40), Dup-004 (460-156722-41), SS-025 (18"-24") (460-156722-42), SS-026 (18"-24") (460-156722-43), SS-028 (18"-24") (460-156722-44), SS-033 (18"-24") (460-156722-48), SS-035 (18"-24") (460-156722-49), SS-039 (18"-24") (460-156722-51), SS-042 (18"-24") (460-156722-53), SS-044 (18"-24") (460-156722-54), SS-001 (18"-24") (460-156722-56), SS-002 (18"-24") (460-156722-57), SS-005 (18"-24") (460-156722-59), SS-006 (18"-24") (460-156722-60), SS-008 (18"-24") (460-156722-61), SS-009 (18"-24") (460-156722-62) and SS-010 (18"-24") (460-156722-63) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 05/24/2018, 05/25/2018 and 06/06/2018.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-1</b>	<b>SS-025 (0-3")</b>					
4,4'-DDT		0.025		0.0098	mg/Kg	8081B
Chlordane (technical)		0.85		0.098	mg/Kg	8081B
Aluminum		7470		57.6	mg/Kg	6010C
Arsenic		7.2		4.3	mg/Kg	6010C
Barium		22.8	J	57.6	mg/Kg	6010C
Beryllium		0.29	J	0.58	mg/Kg	6010C
Calcium		1210	J	1440	mg/Kg	6010C
Chromium		22.2		2.9	mg/Kg	6010C
Cobalt		1.9	J	14.4	mg/Kg	6010C
Copper		8.7		7.2	mg/Kg	6010C
Iron		9130		43.2	mg/Kg	6010C
Lead		18.0		2.9	mg/Kg	6010C
Magnesium		885	J	1440	mg/Kg	6010C
Manganese		135		4.3	mg/Kg	6010C
Nickel		5.3	J	11.5	mg/Kg	6010C
Potassium		261	J	1440	mg/Kg	6010C
Vanadium		16.1		14.4	mg/Kg	6010C
Zinc		35.8		8.6	mg/Kg	6010C
Mercury		2.4		0.12	mg/Kg	7471B
Percent Moisture		32.0		1.0	%	Moisture
Percent Solids		68.0		1.0	%	Moisture
<b>460-156722-2</b>	<b>SS-026 (0-3")</b>					
Chlordane (technical)		12		0.96	mg/Kg	8081B
Aluminum		1320		57.6	mg/Kg	6010C
Arsenic		1.5	J	4.3	mg/Kg	6010C
Barium		21.1	J	57.6	mg/Kg	6010C
Beryllium		0.12	J	0.58	mg/Kg	6010C
Cadmium		7.3		1.2	mg/Kg	6010C
Calcium		1420	J	1440	mg/Kg	6010C
Chromium		67.3		2.9	mg/Kg	6010C
Copper		10.9		7.2	mg/Kg	6010C
Iron		4540		43.2	mg/Kg	6010C
Lead		11.0		2.9	mg/Kg	6010C
Magnesium		428	J	1440	mg/Kg	6010C
Manganese		304		4.3	mg/Kg	6010C
Nickel		2.5	J	11.5	mg/Kg	6010C
Potassium		140	J	1440	mg/Kg	6010C
Vanadium		7.2	J	14.4	mg/Kg	6010C
Zinc		56.0		8.6	mg/Kg	6010C
Mercury		33.4		0.98	mg/Kg	7471B
Percent Moisture		30.6		1.0	%	Moisture
Percent Solids		69.4		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-3</b>	<b>SS-027 (0-3")</b>					
Chlordane (technical)		0.99		0.093	mg/Kg	8081B
Heptachlor epoxide		0.12		0.0093	mg/Kg	8081B
Aluminum		2530		54.8	mg/Kg	6010C
Arsenic		3.2	J	4.1	mg/Kg	6010C
Barium		17.2	J	54.8	mg/Kg	6010C
Beryllium		0.17	J	0.55	mg/Kg	6010C
Cadmium		0.18	J	1.1	mg/Kg	6010C
Calcium		1060	J	1370	mg/Kg	6010C
Chromium		25.1		2.7	mg/Kg	6010C
Cobalt		1.7	J	13.7	mg/Kg	6010C
Copper		11.7		6.8	mg/Kg	6010C
Iron		5980		41.1	mg/Kg	6010C
Lead		15.0		2.7	mg/Kg	6010C
Magnesium		625	J	1370	mg/Kg	6010C
Manganese		242		4.1	mg/Kg	6010C
Nickel		4.0	J	11.0	mg/Kg	6010C
Potassium		178	J	1370	mg/Kg	6010C
Vanadium		9.0	J	13.7	mg/Kg	6010C
Zinc		42.0		8.2	mg/Kg	6010C
Mercury		3.8		0.22	mg/Kg	7471B
Percent Moisture		28.4		1.0	%	Moisture
Percent Solids		71.6		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-4</b>	<b>SS-027 (18"-24")</b>					
4,4'-DDE		0.13		0.0096	mg/Kg	8081B
4,4'-DDT		0.11		0.0096	mg/Kg	8081B
Chlordane (technical)		1.3		0.096	mg/Kg	8081B
Dieldrin		0.017		0.0029	mg/Kg	8081B
Heptachlor epoxide		0.11		0.0096	mg/Kg	8081B
Aluminum		11300		56.1	mg/Kg	6010C
Arsenic		25.9		4.2	mg/Kg	6010C
Barium		35.6	J	56.1	mg/Kg	6010C
Beryllium		0.45	J	0.56	mg/Kg	6010C
Cadmium		0.50	J	1.1	mg/Kg	6010C
Calcium		2720		1400	mg/Kg	6010C
Chromium		43.4		2.8	mg/Kg	6010C
Cobalt		3.2	J	14.0	mg/Kg	6010C
Copper		24.1		7.0	mg/Kg	6010C
Iron		12600		42.1	mg/Kg	6010C
Lead		30.8		2.8	mg/Kg	6010C
Magnesium		1500		1400	mg/Kg	6010C
Manganese		239		4.2	mg/Kg	6010C
Nickel		8.0	J	11.2	mg/Kg	6010C
Potassium		338	J	1400	mg/Kg	6010C
Vanadium		23.1		14.0	mg/Kg	6010C
Zinc		65.7		8.4	mg/Kg	6010C
Mercury		6.9		0.48	mg/Kg	7471B
Percent Moisture		30.1		1.0	%	Moisture
Percent Solids		69.9		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-5</b>	<b>SS-028 (0-3")</b>					
Chlordane (technical)		27		3.9	mg/Kg	8081B
Aluminum		2590		45.5	mg/Kg	6010C
Arsenic		11.2		3.4	mg/Kg	6010C
Barium		19.9	J	45.5	mg/Kg	6010C
Beryllium		0.16	J	0.46	mg/Kg	6010C
Cadmium		6.9		0.91	mg/Kg	6010C
Calcium		1520		1140	mg/Kg	6010C
Chromium		43.0		2.3	mg/Kg	6010C
Cobalt		1.7	J	11.4	mg/Kg	6010C
Copper		13.8		5.7	mg/Kg	6010C
Iron		5050		34.1	mg/Kg	6010C
Lead		14.2		2.3	mg/Kg	6010C
Magnesium		780	J	1140	mg/Kg	6010C
Manganese		186		3.4	mg/Kg	6010C
Nickel		4.6	J	9.1	mg/Kg	6010C
Potassium		208	J	1140	mg/Kg	6010C
Vanadium		8.2	J	11.4	mg/Kg	6010C
Zinc		60.1		6.8	mg/Kg	6010C
Mercury		2.6		0.091	mg/Kg	7471B
Percent Moisture		14.7		1.0	%	Moisture
Percent Solids		85.3		1.0	%	Moisture
<b>460-156722-6</b>	<b>SS-029 (0-3")</b>					
4,4'-DDE		0.013		0.0079	mg/Kg	8081B
4,4'-DDT		0.0067	J	0.0079	mg/Kg	8081B
Aluminum		3620		46.6	mg/Kg	6010C
Arsenic		1.5	J	3.5	mg/Kg	6010C
Barium		15.3	J	46.6	mg/Kg	6010C
Beryllium		0.17	J	0.47	mg/Kg	6010C
Calcium		207	J	1170	mg/Kg	6010C
Chromium		6.4		2.3	mg/Kg	6010C
Cobalt		1.3	J	11.7	mg/Kg	6010C
Copper		13.3		5.8	mg/Kg	6010C
Iron		5800		35.0	mg/Kg	6010C
Lead		11.7		2.3	mg/Kg	6010C
Magnesium		588	J	1170	mg/Kg	6010C
Manganese		51.0		3.5	mg/Kg	6010C
Nickel		3.2	J	9.3	mg/Kg	6010C
Potassium		164	J	1170	mg/Kg	6010C
Vanadium		10.1	J	11.7	mg/Kg	6010C
Zinc		49.9		7.0	mg/Kg	6010C
Mercury		0.043		0.020	mg/Kg	7471B
Percent Moisture		15.9		1.0	%	Moisture
Percent Solids		84.1		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-7</b>	<b>SS-030 (0-3")</b>					
4,4'-DDT		0.0051	J	0.0087	mg/Kg	8081B
Aluminum		1650		50.9	mg/Kg	6010C
Arsenic		2.1	J	3.8	mg/Kg	6010C
Barium		8.1	J	50.9	mg/Kg	6010C
Beryllium		0.091	J	0.51	mg/Kg	6010C
Calcium		428	J	1270	mg/Kg	6010C
Chromium		2.9		2.5	mg/Kg	6010C
Copper		4.7	J	6.4	mg/Kg	6010C
Iron		3790		38.2	mg/Kg	6010C
Lead		22.2		2.5	mg/Kg	6010C
Magnesium		208	J	1270	mg/Kg	6010C
Manganese		44.4		3.8	mg/Kg	6010C
Nickel		1.8	J	10.2	mg/Kg	6010C
Potassium		130	J	1270	mg/Kg	6010C
Vanadium		11.9	J	12.7	mg/Kg	6010C
Zinc		7.5	J	7.6	mg/Kg	6010C
Mercury		0.11		0.022	mg/Kg	7471B
Percent Moisture		22.9		1.0	%	Moisture
Percent Solids		77.1		1.0	%	Moisture
<b>460-156722-8</b>	<b>SS-031 (0-3")</b>					
4,4'-DDE		0.0096	J	0.011	mg/Kg	8081B
4,4'-DDT		0.012		0.011	mg/Kg	8081B
Aluminum		1230		64.7	mg/Kg	6010C
Barium		13.6	J	64.7	mg/Kg	6010C
Cadmium		0.22	J	1.3	mg/Kg	6010C
Calcium		885	J	1620	mg/Kg	6010C
Chromium		2.0	J	3.2	mg/Kg	6010C
Copper		4.2	J	8.1	mg/Kg	6010C
Iron		1870		48.5	mg/Kg	6010C
Lead		13.9		3.2	mg/Kg	6010C
Magnesium		209	J	1620	mg/Kg	6010C
Manganese		25.1		4.8	mg/Kg	6010C
Nickel		1.7	J	12.9	mg/Kg	6010C
Potassium		149	J	1620	mg/Kg	6010C
Vanadium		6.6	J	16.2	mg/Kg	6010C
Zinc		16.8		9.7	mg/Kg	6010C
Mercury		0.060		0.028	mg/Kg	7471B
Percent Moisture		38.7		1.0	%	Moisture
Percent Solids		61.3		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-9</b>	<b>SS-031 (18"-24")</b>					
Aluminum		5390		46.4	mg/Kg	6010C
Arsenic		0.94	J	3.5	mg/Kg	6010C
Barium		7.0	J	46.4	mg/Kg	6010C
Beryllium		0.13	J	0.46	mg/Kg	6010C
Chromium		5.3		2.3	mg/Kg	6010C
Copper		2.0	J	5.8	mg/Kg	6010C
Iron		7180		34.8	mg/Kg	6010C
Lead		7.6		2.3	mg/Kg	6010C
Magnesium		336	J	1160	mg/Kg	6010C
Manganese		19.0		3.5	mg/Kg	6010C
Nickel		2.0	J	9.3	mg/Kg	6010C
Potassium		145	J	1160	mg/Kg	6010C
Vanadium		12.5		11.6	mg/Kg	6010C
Zinc		5.6	J	7.0	mg/Kg	6010C
Mercury		0.024		0.019	mg/Kg	7471B
Percent Moisture		16.4		1.0	%	Moisture
Percent Solids		83.6		1.0	%	Moisture
<b>460-156722-10</b>	<b>SS-032 (0-3")</b>					
Aluminum		5210		52.8	mg/Kg	6010C
Arsenic		2.9	J	4.0	mg/Kg	6010C
Barium		355		52.8	mg/Kg	6010C
Beryllium		0.64		0.53	mg/Kg	6010C
Calcium		497	J	1320	mg/Kg	6010C
Chromium		7.8		2.6	mg/Kg	6010C
Cobalt		6.0	J	13.2	mg/Kg	6010C
Copper		10.4		6.6	mg/Kg	6010C
Iron		6700		39.6	mg/Kg	6010C
Lead		24.6		2.6	mg/Kg	6010C
Magnesium		361	J	1320	mg/Kg	6010C
Manganese		1070		4.0	mg/Kg	6010C
Nickel		5.9	J	10.6	mg/Kg	6010C
Potassium		109	J	1320	mg/Kg	6010C
Vanadium		17.9		13.2	mg/Kg	6010C
Zinc		27.6		7.9	mg/Kg	6010C
Mercury		0.088		0.023	mg/Kg	7471B
Percent Moisture		25.0		1.0	%	Moisture
Percent Solids		75.0		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-11</b>	<b>SS-033 (0-3")</b>					
4,4'-DDT		0.017		0.0087	mg/Kg	8081B
Chlordane (technical)		0.92		0.087	mg/Kg	8081B
Heptachlor epoxide		0.21		0.0087	mg/Kg	8081B
Aluminum		4600		49.9	mg/Kg	6010C
Arsenic		2.3	J	3.7	mg/Kg	6010C
Barium		18.8	J	49.9	mg/Kg	6010C
Beryllium		0.17	J	0.50	mg/Kg	6010C
Cadmium		0.95	J	1.0	mg/Kg	6010C
Calcium		1750		1250	mg/Kg	6010C
Chromium		52.6		2.5	mg/Kg	6010C
Copper		7.0		6.2	mg/Kg	6010C
Iron		6110		37.4	mg/Kg	6010C
Lead		28.1		2.5	mg/Kg	6010C
Magnesium		536	J	1250	mg/Kg	6010C
Manganese		166		3.7	mg/Kg	6010C
Nickel		3.4	J	10	mg/Kg	6010C
Potassium		108	J	1250	mg/Kg	6010C
Vanadium		11.5	J	12.5	mg/Kg	6010C
Zinc		47.5		7.5	mg/Kg	6010C
Mercury		9.5		0.43	mg/Kg	7471B
Percent Moisture		22.8		1.0	%	Moisture
Percent Solids		77.2		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-12</b>	<b>SS-034 (0-3")</b>					
Chlordane (technical)		14		1.6	mg/Kg	8081B
delta-BHC		0.21		0.048	mg/Kg	8081B
Heptachlor epoxide		0.26		0.16	mg/Kg	8081B
Aluminum		1370		46.7	mg/Kg	6010C
Barium		13.9	J	46.7	mg/Kg	6010C
Beryllium		0.12	J	0.47	mg/Kg	6010C
Cadmium		3.6		0.93	mg/Kg	6010C
Calcium		1200		1170	mg/Kg	6010C
Chromium		31.1		2.3	mg/Kg	6010C
Copper		10.7		5.8	mg/Kg	6010C
Iron		4090		35.0	mg/Kg	6010C
Lead		9.8		2.3	mg/Kg	6010C
Magnesium		662	J	1170	mg/Kg	6010C
Manganese		216		3.5	mg/Kg	6010C
Nickel		2.5	J	9.3	mg/Kg	6010C
Potassium		120	J	1170	mg/Kg	6010C
Vanadium		6.0	J	11.7	mg/Kg	6010C
Zinc		52.2		7.0	mg/Kg	6010C
Mercury		5.8		0.39	mg/Kg	7471B
Percent Moisture		16.9		1.0	%	Moisture
Percent Solids		83.1		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-13</b>	<b>SS-034 (18"-24")</b>					
Chlordane (technical)		1.1		0.076	mg/Kg	8081B
Heptachlor epoxide		0.070		0.0076	mg/Kg	8081B
Aluminum		11000		45.8	mg/Kg	6010C
Arsenic		14.8		3.4	mg/Kg	6010C
Barium		18.1	J	45.8	mg/Kg	6010C
Beryllium		0.32	J	0.46	mg/Kg	6010C
Cadmium		0.33	J	0.92	mg/Kg	6010C
Calcium		680	J	1140	mg/Kg	6010C
Chromium		16.8		2.3	mg/Kg	6010C
Cobalt		1.8	J	11.4	mg/Kg	6010C
Copper		5.3	J	5.7	mg/Kg	6010C
Iron		13800		34.3	mg/Kg	6010C
Lead		16.2		2.3	mg/Kg	6010C
Magnesium		836	J	1140	mg/Kg	6010C
Manganese		56.1		3.4	mg/Kg	6010C
Nickel		6.4	J	9.2	mg/Kg	6010C
Potassium		300	J	1140	mg/Kg	6010C
Vanadium		23.7		11.4	mg/Kg	6010C
Zinc		46.9		6.9	mg/Kg	6010C
Mercury		1.2		0.038	mg/Kg	7471B
Percent Moisture		12.6		1.0	%	Moisture
Percent Solids		87.4		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-14</b>	<b>SS-035 (0-3")</b>					
Chlordane (technical)		3.1		0.42	mg/Kg	8081B
Heptachlor epoxide		0.25		0.042	mg/Kg	8081B
Aluminum		4470		50.3	mg/Kg	6010C
Arsenic		2.7	J	3.8	mg/Kg	6010C
Barium		18.1	J	50.3	mg/Kg	6010C
Beryllium		0.17	J	0.50	mg/Kg	6010C
Cadmium		0.37	J	1.0	mg/Kg	6010C
Calcium		1030	J	1260	mg/Kg	6010C
Chromium		15.6		2.5	mg/Kg	6010C
Cobalt		4.9	J	12.6	mg/Kg	6010C
Copper		8.4		6.3	mg/Kg	6010C
Iron		6430		37.8	mg/Kg	6010C
Lead		19.1		2.5	mg/Kg	6010C
Magnesium		346	J	1260	mg/Kg	6010C
Manganese		638		3.8	mg/Kg	6010C
Nickel		4.7	J	10.1	mg/Kg	6010C
Potassium		88.7	J	1260	mg/Kg	6010C
Vanadium		13.1		12.6	mg/Kg	6010C
Zinc		30.5		7.6	mg/Kg	6010C
Mercury		2.0		0.10	mg/Kg	7471B
Percent Moisture		20.6		1.0	%	Moisture
Percent Solids		79.4		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-15</b>	<b>SS-036 (0-3")</b>					
Chlordane (technical)		0.70		0.075	mg/Kg	8081B
Dieldrin		0.0080		0.0022	mg/Kg	8081B
Heptachlor epoxide		0.20		0.0075	mg/Kg	8081B
Aluminum		4490		44.2	mg/Kg	6010C
Arsenic		2.3	J	3.3	mg/Kg	6010C
Barium		17.9	J	44.2	mg/Kg	6010C
Beryllium		0.20	J	0.44	mg/Kg	6010C
Cadmium		0.65	J	0.88	mg/Kg	6010C
Calcium		1700		1100	mg/Kg	6010C
Chromium		36.3		2.2	mg/Kg	6010C
Cobalt		6.0	J	11.0	mg/Kg	6010C
Copper		7.3		5.5	mg/Kg	6010C
Iron		8130		33.1	mg/Kg	6010C
Lead		34.3		2.2	mg/Kg	6010C
Magnesium		565	J	1100	mg/Kg	6010C
Manganese		285		3.3	mg/Kg	6010C
Nickel		4.3	J	8.8	mg/Kg	6010C
Potassium		153	J	1100	mg/Kg	6010C
Vanadium		12.2		11.0	mg/Kg	6010C
Zinc		49.5		6.6	mg/Kg	6010C
Mercury		2.3		0.093	mg/Kg	7471B
Percent Moisture		10.4		1.0	%	Moisture
Percent Solids		89.6		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-16</b>	<b>SS-036 (18"-24")</b>					
Chlordane (technical)		0.098		0.072	mg/Kg	8081B
Heptachlor epoxide		0.017		0.0072	mg/Kg	8081B
Aluminum		3780		42.8	mg/Kg	6010C
Arsenic		0.83	J	3.2	mg/Kg	6010C
Barium		5.1	J	42.8	mg/Kg	6010C
Beryllium		0.10	J	0.43	mg/Kg	6010C
Calcium		262	J	1070	mg/Kg	6010C
Chromium		5.7		2.1	mg/Kg	6010C
Cobalt		1.5	J	10.7	mg/Kg	6010C
Copper		3.4	J	5.3	mg/Kg	6010C
Iron		4720		32.1	mg/Kg	6010C
Lead		2.7		2.1	mg/Kg	6010C
Magnesium		210	J	1070	mg/Kg	6010C
Manganese		38.7		3.2	mg/Kg	6010C
Nickel		3.1	J	8.6	mg/Kg	6010C
Vanadium		7.0	J	10.7	mg/Kg	6010C
Zinc		10.4		6.4	mg/Kg	6010C
Mercury		0.079		0.017	mg/Kg	7471B
Percent Moisture		6.5		1.0	%	Moisture
Percent Solids		93.5		1.0	%	Moisture
<b>460-156722-17</b>	<b>SS-037 (0-3")</b>					
Aluminum		3550		44.5	mg/Kg	6010C
Arsenic		3.8		3.3	mg/Kg	6010C
Barium		12.1	J	44.5	mg/Kg	6010C
Beryllium		0.14	J	0.45	mg/Kg	6010C
Calcium		774	J	1110	mg/Kg	6010C
Chromium		5.8		2.2	mg/Kg	6010C
Copper		5.7		5.6	mg/Kg	6010C
Iron		5790		33.4	mg/Kg	6010C
Lead		27.6		2.2	mg/Kg	6010C
Magnesium		364	J	1110	mg/Kg	6010C
Manganese		113		3.3	mg/Kg	6010C
Nickel		2.5	J	8.9	mg/Kg	6010C
Potassium		146	J	1110	mg/Kg	6010C
Vanadium		12.1		11.1	mg/Kg	6010C
Zinc		17.5		6.7	mg/Kg	6010C
Mercury		0.18		0.019	mg/Kg	7471B
Percent Moisture		11.9		1.0	%	Moisture
Percent Solids		88.1		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-18</b>	<b>SS-038 (0-3")</b>					
4,4'-DDE		0.015		0.0075	mg/Kg	8081B
4,4'-DDT		0.016		0.0075	mg/Kg	8081B
Aluminum		4710		44.4	mg/Kg	6010C
Arsenic		1.5	J	3.3	mg/Kg	6010C
Barium		10.7	J	44.4	mg/Kg	6010C
Beryllium		0.15	J	0.44	mg/Kg	6010C
Calcium		504	J	1110	mg/Kg	6010C
Chromium		6.4		2.2	mg/Kg	6010C
Copper		4.0	J	5.6	mg/Kg	6010C
Iron		5830		33.3	mg/Kg	6010C
Lead		13.8		2.2	mg/Kg	6010C
Magnesium		494	J	1110	mg/Kg	6010C
Manganese		119		3.3	mg/Kg	6010C
Nickel		2.9	J	8.9	mg/Kg	6010C
Potassium		105	J	1110	mg/Kg	6010C
Vanadium		10.8	J	11.1	mg/Kg	6010C
Zinc		17.2		6.7	mg/Kg	6010C
Mercury		0.042		0.019	mg/Kg	7471B
Percent Moisture		10.8		1.0	%	Moisture
Percent Solids		89.2		1.0	%	Moisture
<b>460-156722-19</b>	<b>SS-038 (18"-24")</b>					
Chlordane (technical)		0.16		0.072	mg/Kg	8081B
Heptachlor epoxide		0.0034	J	0.0072	mg/Kg	8081B
Aluminum		2600		42.1	mg/Kg	6010C
Barium		12.5	J	42.1	mg/Kg	6010C
Beryllium		0.14	J	0.42	mg/Kg	6010C
Calcium		3990		1050	mg/Kg	6010C
Chromium		4.8		2.1	mg/Kg	6010C
Cobalt		2.7	J	10.5	mg/Kg	6010C
Copper		5.5		5.3	mg/Kg	6010C
Iron		4450		31.5	mg/Kg	6010C
Lead		13.1		2.1	mg/Kg	6010C
Magnesium		1870		1050	mg/Kg	6010C
Manganese		462		3.2	mg/Kg	6010C
Nickel		3.7	J	8.4	mg/Kg	6010C
Potassium		83.8	J	1050	mg/Kg	6010C
Vanadium		9.1	J	10.5	mg/Kg	6010C
Zinc		16.2		6.3	mg/Kg	6010C
Mercury		0.13		0.017	mg/Kg	7471B
Percent Moisture		6.7		1.0	%	Moisture
Percent Solids		93.3		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-20</b>	<b>SS-039 (0-3")</b>					
Chlordane (technical)		2.0		0.39	mg/Kg	8081B
Heptachlor epoxide		0.16		0.039	mg/Kg	8081B
Aluminum		6300		46.1	mg/Kg	6010C
Arsenic		2.6	J	3.5	mg/Kg	6010C
Barium		18.0	J	46.1	mg/Kg	6010C
Beryllium		0.23	J	0.46	mg/Kg	6010C
Cadmium		0.30	J	0.92	mg/Kg	6010C
Calcium		1340		1150	mg/Kg	6010C
Chromium		31.6		2.3	mg/Kg	6010C
Cobalt		1.4	J	11.5	mg/Kg	6010C
Copper		5.0	J	5.8	mg/Kg	6010C
Iron		7470		34.6	mg/Kg	6010C
Lead		22.0		2.3	mg/Kg	6010C
Magnesium		708	J	1150	mg/Kg	6010C
Manganese		127		3.5	mg/Kg	6010C
Nickel		3.9	J	9.2	mg/Kg	6010C
Potassium		214	J	1150	mg/Kg	6010C
Vanadium		14.4		11.5	mg/Kg	6010C
Zinc		30.4		6.9	mg/Kg	6010C
Mercury		2.0		0.097	mg/Kg	7471B
Percent Moisture		14.1		1.0	%	Moisture
Percent Solids		85.9		1.0	%	Moisture
<b>460-156722-31</b>	<b>SS-040 (0-3")</b>					
4,4'-DDT		0.0038	J	0.0076	mg/Kg	8081B
Heptachlor epoxide		0.015		0.0076	mg/Kg	8081B
Aluminum		2230		44.8	mg/Kg	6010C
Arsenic		1.7	J	3.4	mg/Kg	6010C
Barium		8.3	J	44.8	mg/Kg	6010C
Beryllium		0.083	J	0.45	mg/Kg	6010C
Calcium		319	J	1120	mg/Kg	6010C
Chromium		3.9		2.2	mg/Kg	6010C
Copper		2.9	J	5.6	mg/Kg	6010C
Iron		4180		33.6	mg/Kg	6010C
Lead		20.6		2.2	mg/Kg	6010C
Magnesium		209	J	1120	mg/Kg	6010C
Manganese		215		3.4	mg/Kg	6010C
Nickel		1.4	J	9.0	mg/Kg	6010C
Potassium		69.3	J	1120	mg/Kg	6010C
Vanadium		9.4	J	11.2	mg/Kg	6010C
Zinc		12.4		6.7	mg/Kg	6010C
Mercury		0.037		0.019	mg/Kg	7471B
Percent Moisture		11.7		1.0	%	Moisture
Percent Solids		88.3		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-32</b>	<b>SS-041 (0-3")</b>					
Aluminum		1590		46.7	mg/Kg	6010C
Arsenic		1.1	J	3.5	mg/Kg	6010C
Barium		6.6	J	46.7	mg/Kg	6010C
Beryllium		0.068	J	0.47	mg/Kg	6010C
Calcium		179	J	1170	mg/Kg	6010C
Chromium		4.5		2.3	mg/Kg	6010C
Copper		3.0	J	5.8	mg/Kg	6010C
Iron		2780		35.1	mg/Kg	6010C
Lead		16.4		2.3	mg/Kg	6010C
Magnesium		157	J	1170	mg/Kg	6010C
Manganese		56.7		3.5	mg/Kg	6010C
Nickel		1.1	J	9.3	mg/Kg	6010C
Vanadium		6.5	J	11.7	mg/Kg	6010C
Zinc		8.5		7.0	mg/Kg	6010C
Mercury		0.86		0.094	mg/Kg	7471B
Percent Moisture		16.9		1.0	%	Moisture
Percent Solids		83.1		1.0	%	Moisture
<b>460-156722-33</b>	<b>SS-041 (18"-24")</b>					
Aluminum		3450		45.1	mg/Kg	6010C
Barium		4.2	J	45.1	mg/Kg	6010C
Beryllium		0.10	J	0.45	mg/Kg	6010C
Chromium		4.1		2.3	mg/Kg	6010C
Copper		2.5	J	5.6	mg/Kg	6010C
Iron		4740		33.8	mg/Kg	6010C
Lead		2.6		2.3	mg/Kg	6010C
Magnesium		138	J	1130	mg/Kg	6010C
Manganese		27.6		3.4	mg/Kg	6010C
Nickel		2.4	J	9.0	mg/Kg	6010C
Vanadium		7.4	J	11.3	mg/Kg	6010C
Zinc		9.3		6.8	mg/Kg	6010C
Mercury		0.073		0.019	mg/Kg	7471B
Percent Moisture		11.3		1.0	%	Moisture
Percent Solids		88.7		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-34</b>	<b>SS-042 (0-3")</b>					
4,4'-DDE		0.0047	J	0.0076	mg/Kg	8081B
Chlordane (technical)		0.31		0.076	mg/Kg	8081B
Heptachlor epoxide		0.052		0.0076	mg/Kg	8081B
Aluminum		3830		44.8	mg/Kg	6010C
Arsenic		2.1	J	3.4	mg/Kg	6010C
Barium		27.0	J	44.8	mg/Kg	6010C
Beryllium		0.18	J	0.45	mg/Kg	6010C
Cadmium		0.67	J	0.90	mg/Kg	6010C
Calcium		2000		1120	mg/Kg	6010C
Chromium		42.2		2.2	mg/Kg	6010C
Cobalt		3.4	J	11.2	mg/Kg	6010C
Copper		6.7		5.6	mg/Kg	6010C
Iron		5860		33.6	mg/Kg	6010C
Lead		41.6		2.2	mg/Kg	6010C
Magnesium		434	J	1120	mg/Kg	6010C
Manganese		558		3.4	mg/Kg	6010C
Nickel		4.4	J	9.0	mg/Kg	6010C
Potassium		106	J	1120	mg/Kg	6010C
Vanadium		11.9		11.2	mg/Kg	6010C
Zinc		52.6		6.7	mg/Kg	6010C
Mercury		3.9		0.38	mg/Kg	7471B
Percent Moisture		11.6		1.0	%	Moisture
Percent Solids		88.4		1.0	%	Moisture
<b>460-156722-35</b>	<b>SS-043 (0-3")</b>					
Heptachlor epoxide		0.0076		0.0074	mg/Kg	8081B
Aluminum		1980		43.5	mg/Kg	6010C
Arsenic		1.7	J	3.3	mg/Kg	6010C
Barium		4.0	J	43.5	mg/Kg	6010C
Beryllium		0.060	J	0.44	mg/Kg	6010C
Calcium		129	J	1090	mg/Kg	6010C
Chromium		4.1		2.2	mg/Kg	6010C
Cobalt		1.9	J	10.9	mg/Kg	6010C
Copper		4.1	J	5.4	mg/Kg	6010C
Iron		4340		32.6	mg/Kg	6010C
Lead		19.9		2.2	mg/Kg	6010C
Magnesium		95.6	J	1090	mg/Kg	6010C
Manganese		189		3.3	mg/Kg	6010C
Nickel		1.6	J	8.7	mg/Kg	6010C
Vanadium		11.0		10.9	mg/Kg	6010C
Zinc		8.0		6.5	mg/Kg	6010C
Mercury		0.042		0.017	mg/Kg	7471B
Percent Moisture		9.0		1.0	%	Moisture
Percent Solids		91.0		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-36</b>	<b>SS-043 (18"-24")</b>					
Aluminum		3350		42.1	mg/Kg	6010C
Barium		3.5	J	42.1	mg/Kg	6010C
Beryllium		0.090	J	0.42	mg/Kg	6010C
Chromium		5.0		2.1	mg/Kg	6010C
Cobalt		2.8	J	10.5	mg/Kg	6010C
Copper		3.8	J	5.3	mg/Kg	6010C
Iron		4750		31.6	mg/Kg	6010C
Lead		5.1		2.1	mg/Kg	6010C
Magnesium		113	J	1050	mg/Kg	6010C
Manganese		169		3.2	mg/Kg	6010C
Nickel		3.6	J	8.4	mg/Kg	6010C
Vanadium		7.2	J	10.5	mg/Kg	6010C
Zinc		10.0		6.3	mg/Kg	6010C
Mercury		0.033		0.017	mg/Kg	7471B
Percent Moisture		5.9		1.0	%	Moisture
Percent Solids		94.1		1.0	%	Moisture
<b>460-156722-37</b>	<b>SS-044 (0-3")</b>					
Chlordane (technical)		0.18		0.076	mg/Kg	8081B
Aluminum		4030		44.5	mg/Kg	6010C
Arsenic		4.7		3.3	mg/Kg	6010C
Barium		17.4	J	44.5	mg/Kg	6010C
Beryllium		0.19	J	0.45	mg/Kg	6010C
Cadmium		0.15	J	0.89	mg/Kg	6010C
Calcium		1160		1110	mg/Kg	6010C
Chromium		13.6		2.2	mg/Kg	6010C
Cobalt		1.8	J	11.1	mg/Kg	6010C
Copper		9.8		5.6	mg/Kg	6010C
Iron		6090		33.4	mg/Kg	6010C
Lead		27.3		2.2	mg/Kg	6010C
Magnesium		752	J	1110	mg/Kg	6010C
Manganese		166		3.3	mg/Kg	6010C
Nickel		4.1	J	8.9	mg/Kg	6010C
Potassium		198	J	1110	mg/Kg	6010C
Vanadium		11.0	J	11.1	mg/Kg	6010C
Zinc		38.9		6.7	mg/Kg	6010C
Mercury		0.56		0.018	mg/Kg	7471B
Percent Moisture		11.9		1.0	%	Moisture
Percent Solids		88.1		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-38</b>	<b>SS-045 (0-3")</b>					
Aluminum		2010		48.3	mg/Kg	6010C
Arsenic		1.1	J	3.6	mg/Kg	6010C
Barium		11.4	J	48.3	mg/Kg	6010C
Beryllium		0.096	J	0.48	mg/Kg	6010C
Calcium		360	J	1210	mg/Kg	6010C
Chromium		4.6		2.4	mg/Kg	6010C
Copper		5.8	J	6.0	mg/Kg	6010C
Iron		4590		36.3	mg/Kg	6010C
Lead		44.2		2.4	mg/Kg	6010C
Magnesium		192	J	1210	mg/Kg	6010C
Manganese		42.1		3.6	mg/Kg	6010C
Nickel		3.2	J	9.7	mg/Kg	6010C
Potassium		110	J	1210	mg/Kg	6010C
Vanadium		13.9		12.1	mg/Kg	6010C
Zinc		20.2		7.3	mg/Kg	6010C
Mercury		0.078		0.021	mg/Kg	7471B
Percent Moisture		19.7		1.0	%	Moisture
Percent Solids		80.3		1.0	%	Moisture
<b>460-156722-39</b>	<b>SS-007 (18"-24")</b>					
Heptachlor epoxide		0.011		0.0076	mg/Kg	8081B
Aluminum		5800		43.9	mg/Kg	6010C
Arsenic		2.0	J	3.3	mg/Kg	6010C
Barium		8.5	J	43.9	mg/Kg	6010C
Beryllium		0.19	J	0.44	mg/Kg	6010C
Calcium		731	J	1100	mg/Kg	6010C
Chromium		9.1		2.2	mg/Kg	6010C
Copper		2.9	J	5.5	mg/Kg	6010C
Iron		8720		32.9	mg/Kg	6010C
Lead		5.7		2.2	mg/Kg	6010C
Magnesium		404	J	1100	mg/Kg	6010C
Manganese		39.2		3.3	mg/Kg	6010C
Nickel		2.3	J	8.8	mg/Kg	6010C
Potassium		119	J	1100	mg/Kg	6010C
Vanadium		14.1		11.0	mg/Kg	6010C
Zinc		8.0		6.6	mg/Kg	6010C
Mercury		0.31		0.018	mg/Kg	7471B
Percent Moisture		11.6		1.0	%	Moisture
Percent Solids		88.4		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-40</b>	<b>DUP-003</b>					
Chlordane (technical)		3.0		0.40	mg/Kg	8081B
Aluminum		1900		47.2	mg/Kg	6010C
Arsenic		6.1		3.5	mg/Kg	6010C
Barium		14.3	J	47.2	mg/Kg	6010C
Beryllium		0.13	J	0.47	mg/Kg	6010C
Cadmium		6.3		0.94	mg/Kg	6010C
Calcium		2240		1180	mg/Kg	6010C
Chromium		26.6		2.4	mg/Kg	6010C
Cobalt		1.5	J	11.8	mg/Kg	6010C
Copper		14.6		5.9	mg/Kg	6010C
Iron		4190		35.4	mg/Kg	6010C
Lead		10.6		2.4	mg/Kg	6010C
Magnesium		1160	J	1180	mg/Kg	6010C
Manganese		234		3.5	mg/Kg	6010C
Nickel		4.0	J	9.4	mg/Kg	6010C
Potassium		171	J	1180	mg/Kg	6010C
Vanadium		7.2	J	11.8	mg/Kg	6010C
Zinc		60.8		7.1	mg/Kg	6010C
Mercury		3.2		0.096	mg/Kg	7471B
Percent Moisture		17.0		1.0	%	Moisture
Percent Solids		83.0		1.0	%	Moisture
<b>460-156722-41</b>	<b>DUP-004</b>					
Heptachlor epoxide		0.057		0.0077	mg/Kg	8081B
Aluminum		4160		45.4	mg/Kg	6010C
Arsenic		2.4	J	3.4	mg/Kg	6010C
Barium		18.3	J	45.4	mg/Kg	6010C
Beryllium		0.18	J	0.45	mg/Kg	6010C
Cadmium		0.71	J	0.91	mg/Kg	6010C
Calcium		2030		1140	mg/Kg	6010C
Chromium		45.0		2.3	mg/Kg	6010C
Cobalt		4.2	J	11.4	mg/Kg	6010C
Copper		6.9		5.7	mg/Kg	6010C
Iron		6570		34.1	mg/Kg	6010C
Lead		40.1		2.3	mg/Kg	6010C
Magnesium		584	J	1140	mg/Kg	6010C
Manganese		257		3.4	mg/Kg	6010C
Nickel		3.9	J	9.1	mg/Kg	6010C
Potassium		139	J	1140	mg/Kg	6010C
Vanadium		11.4		11.4	mg/Kg	6010C
Zinc		53.7		6.8	mg/Kg	6010C
Mercury		3.2		0.087	mg/Kg	7471B
Percent Moisture		12.8		1.0	%	Moisture
Percent Solids		87.2		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-42</b>	<b>SS-025 (18"-24")</b>					
Chlordane (technical)		0.88		0.087	mg/Kg	8081B
Mercury		15.7		0.84	mg/Kg	7471B
Percent Moisture		22.9		1.0	%	Moisture
Percent Solids		77.1		1.0	%	Moisture
<b>460-156722-43</b>	<b>SS-026 (18"-24")</b>					
Chlordane (technical)		1.4		0.085	mg/Kg	8081B
Cadmium		1.2		0.75	mg/Kg	6010C
Chromium		13.5		1.9	mg/Kg	6010C
Mercury		13.4		0.85	mg/Kg	7471B
Percent Moisture		21.4		1.0	%	Moisture
Percent Solids		78.6		1.0	%	Moisture
<b>460-156722-44</b>	<b>SS-028 (18"-24")</b>					
Chlordane (technical)		0.64		0.070	mg/Kg	8081B
Heptachlor epoxide		0.018		0.0070	mg/Kg	8081B
Cadmium		0.11	J	0.65	mg/Kg	6010C
Chromium		3.6		1.6	mg/Kg	6010C
Mercury		0.28		0.017	mg/Kg	7471B
Percent Moisture		5.2		1.0	%	Moisture
Percent Solids		94.8		1.0	%	Moisture
<b>460-156722-48</b>	<b>SS-033 (18"-24")</b>					
Heptachlor epoxide		0.012		0.0082	mg/Kg	8081B
Chromium		6.4		1.9	mg/Kg	6010C
Mercury		0.046		0.019	mg/Kg	7471B
Percent Moisture		18.2		1.0	%	Moisture
Percent Solids		81.8		1.0	%	Moisture
<b>460-156722-49</b>	<b>SS-035 (18"-24")</b>					
Chlordane (technical)		0.91		0.073	mg/Kg	8081B
Heptachlor epoxide		0.072		0.0073	mg/Kg	8081B
Chromium		11.1		1.8	mg/Kg	6010C
Mercury		0.52		0.018	mg/Kg	7471B
Percent Moisture		8.6		1.0	%	Moisture
Percent Solids		91.4		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-51</b>	<b>SS-039 (18"-24")</b>					
Chlordane (technical)		0.24		0.082	mg/Kg	8081B
Heptachlor epoxide		0.031		0.0082	mg/Kg	8081B
Chromium		18.3		1.8	mg/Kg	6010C
Mercury		0.21		0.019	mg/Kg	7471B
Percent Moisture		18.7		1.0	%	Moisture
Percent Solids		81.3		1.0	%	Moisture
<b>460-156722-53</b>	<b>SS-042 (18"-24")</b>					
Chlordane (technical)		0.46		0.070	mg/Kg	8081B
Heptachlor epoxide		0.10		0.0070	mg/Kg	8081B
Chromium		11.3	F1	1.6	mg/Kg	6010C
Mercury		0.66		0.017	mg/Kg	7471B
Percent Moisture		5.1		1.0	%	Moisture
Percent Solids		94.9		1.0	%	Moisture
<b>460-156722-54</b>	<b>SS-044 (18"-24")</b>					
Chlordane (technical)		0.077	p	0.072	mg/Kg	8081B
Mercury		0.090		0.017	mg/Kg	7471B
Percent Moisture		7.0		1.0	%	Moisture
Percent Solids		93.0		1.0	%	Moisture
<b>460-156722-56</b>	<b>SS-001 (18"-24")</b>					
Chlordane (technical)		1.7		0.083	mg/Kg	8081B
Heptachlor epoxide		0.12		0.0083	mg/Kg	8081B
Cadmium		0.83		0.72	mg/Kg	6010C
Chromium		12.0		1.8	mg/Kg	6010C
Mercury		4.9		0.20	mg/Kg	7471B
Percent Moisture		19.8		1.0	%	Moisture
Percent Solids		80.2		1.0	%	Moisture
<b>460-156722-57</b>	<b>SS-002 (18"-24")</b>					
Chlordane (technical)		0.12	p	0.076	mg/Kg	8081B
Heptachlor epoxide		0.014		0.0076	mg/Kg	8081B
Chromium		10.9		1.7	mg/Kg	6010C
Mercury		0.087		0.019	mg/Kg	7471B
Percent Moisture		12.0		1.0	%	Moisture
Percent Solids		88.0		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156722-59</b>	<b>SS-005 (18"-24")</b>					
Chlordane (technical)		0.093	p	0.077	mg/Kg	8081B
Heptachlor epoxide		0.017		0.0077	mg/Kg	8081B
Chromium		12.9		1.8	mg/Kg	6010C
Mercury		0.44		0.019	mg/Kg	7471B
Percent Moisture		13.6		1.0	%	Moisture
Percent Solids		86.4		1.0	%	Moisture
<b>460-156722-60</b>	<b>SS-006 (18"-24")</b>					
Chlordane (technical)		0.15	p	0.081	mg/Kg	8081B
Heptachlor epoxide		0.021		0.0081	mg/Kg	8081B
Mercury		0.25		0.020	mg/Kg	7471B
Percent Moisture		17.2		1.0	%	Moisture
Percent Solids		82.8		1.0	%	Moisture
<b>460-156722-61</b>	<b>SS-008 (18"-24")</b>					
Heptachlor epoxide		0.0075		0.0075	mg/Kg	8081B
Chromium		11.9		1.7	mg/Kg	6010C
Mercury		0.089		0.019	mg/Kg	7471B
Percent Moisture		11.2		1.0	%	Moisture
Percent Solids		88.8		1.0	%	Moisture
<b>460-156722-62</b>	<b>SS-009 (18"-24")</b>					
Chlordane (technical)		0.15	p	0.074	mg/Kg	8081B
Heptachlor epoxide		0.035		0.0074	mg/Kg	8081B
Chromium		8.8		1.6	mg/Kg	6010C
Mercury		0.16		0.018	mg/Kg	7471B
Percent Moisture		10.1		1.0	%	Moisture
Percent Solids		89.9		1.0	%	Moisture
<b>460-156722-63</b>	<b>SS-010 (18"-24")</b>					
Chlordane (technical)		1.2		0.075	mg/Kg	8081B
Cadmium		0.33	J	0.73	mg/Kg	6010C
Chromium		10		1.8	mg/Kg	6010C
Mercury		6.1		0.18	mg/Kg	7471B
Percent Moisture		10.9		1.0	%	Moisture
Percent Solids		89.1		1.0	%	Moisture



## METHOD SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156722-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Organochlorine Pesticides (GC)	TAL EDI	SW846 8081B	
Microwave Extraction	TAL EDI		SW846 3546
Herbicides (GC)	TAL EDI	SW846 8151A	
Extraction (Herbicides)	TAL EDI		SW846 8151A
Metals (ICP)	TAL EDI	SW846 6010C	
Preparation, Metals	TAL EDI		SW846 3050B
Mercury (CVAA)	TAL EDI	SW846 7471B	
Preparation, Mercury	TAL EDI		SW846 7471B
Percent Moisture	TAL EDI	EPA Moisture	

### Lab References:

TAL EDI = TestAmerica Edison

### Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.



## METHOD / ANALYST SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156722-1

Method	Analyst	Analyst ID
SW846 8081B	Kapoor, Sita	SAK
SW846 8151A	Kapoor, Sita	SAK
SW846 6010C	Chang, Churn Der	CDC
SW846 7471B	Staib, Thomas	TJS
EPA Moisture	Potts, Brandon J	BJP



## SAMPLE SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-156722-1	SS-025 (0-3")	Solid	05/22/2018 0755	05/22/2018 2100
460-156722-2	SS-026 (0-3")	Solid	05/22/2018 0820	05/22/2018 2100
460-156722-3	SS-027 (0-3")	Solid	05/22/2018 0840	05/22/2018 2100
460-156722-4	SS-027 (18"-24")	Solid	05/22/2018 0845	05/22/2018 2100
460-156722-5	SS-028 (0-3")	Solid	05/22/2018 0855	05/22/2018 2100
460-156722-6	SS-029 (0-3")	Solid	05/22/2018 0910	05/22/2018 2100
460-156722-7	SS-030 (0-3")	Solid	05/22/2018 0925	05/22/2018 2100
460-156722-8	SS-031 (0-3")	Solid	05/22/2018 0935	05/22/2018 2100
460-156722-9	SS-031 (18"-24")	Solid	05/22/2018 0940	05/22/2018 2100
460-156722-10	SS-032 (0-3")	Solid	05/22/2018 1000	05/22/2018 2100
460-156722-11	SS-033 (0-3")	Solid	05/22/2018 1015	05/22/2018 2100
460-156722-12	SS-034 (0-3")	Solid	05/22/2018 1035	05/22/2018 2100
460-156722-13	SS-034 (18"-24")	Solid	05/22/2018 1040	05/22/2018 2100
460-156722-14	SS-035 (0-3")	Solid	05/22/2018 1050	05/22/2018 2100
460-156722-15	SS-036 (0-3")	Solid	05/22/2018 1105	05/22/2018 2100
460-156722-16	SS-036 (18"-24")	Solid	05/22/2018 1110	05/22/2018 2100
460-156722-17	SS-037 (0-3")	Solid	05/22/2018 1125	05/22/2018 2100
460-156722-18	SS-038 (0-3")	Solid	05/22/2018 1140	05/22/2018 2100
460-156722-19	SS-038 (18"-24")	Solid	05/22/2018 1143	05/22/2018 2100
460-156722-20	SS-039 (0-3")	Solid	05/22/2018 1155	05/22/2018 2100
460-156722-31	SS-040 (0-3")	Solid	05/22/2018 1245	05/22/2018 2100
460-156722-32	SS-041 (0-3")	Solid	05/22/2018 1315	05/22/2018 2100
460-156722-33	SS-041 (18"-24")	Solid	05/22/2018 1320	05/22/2018 2100
460-156722-34	SS-042 (0-3")	Solid	05/22/2018 1330	05/22/2018 2100
460-156722-35	SS-043 (0-3")	Solid	05/22/2018 1340	05/22/2018 2100
460-156722-36	SS-043 (18"-24")	Solid	05/22/2018 1345	05/22/2018 2100
460-156722-37	SS-044 (0-3")	Solid	05/22/2018 1355	05/22/2018 2100
460-156722-38	SS-045 (0-3")	Solid	05/22/2018 1410	05/22/2018 2100
460-156722-39	SS-007 (18"-24")	Solid	05/22/2018 1500	05/22/2018 2100
460-156722-40	Dup-003	Solid	05/22/2018 0000	05/22/2018 2100
460-156722-41	Dup-004	Solid	05/22/2018 0000	05/22/2018 2100
460-156722-42	SS-025 (18"-24")	Solid	05/22/2018 0800	05/22/2018 2100
460-156722-43	SS-026 (18"-24")	Solid	05/22/2018 0825	05/22/2018 2100
460-156722-44	SS-028 (18"-24")	Solid	05/22/2018 0900	05/22/2018 2100
460-156722-48	SS-033 (18"-24")	Solid	05/22/2018 1020	05/22/2018 2100
460-156722-49	SS-035 (18"-24")	Solid	05/22/2018 1055	05/22/2018 2100
460-156722-51	SS-039 (18"-24")	Solid	05/22/2018 1200	05/22/2018 2100
460-156722-53	SS-042 (18"-24")	Solid	05/22/2018 1335	05/22/2018 2100
460-156722-54	SS-044 (18"-24")	Solid	05/22/2018 1400	05/22/2018 2100
460-156722-56	SS-001 (18"-24")	Solid	05/22/2018 1415	05/22/2018 2100
460-156722-57	SS-002 (18"-24")	Solid	05/22/2018 1435	05/22/2018 2100
460-156722-59	SS-005 (18"-24")	Solid	05/22/2018 1450	05/22/2018 2100
460-156722-60	SS-006 (18"-24")	Solid	05/22/2018 1455	05/22/2018 2100
460-156722-61	SS-008 (18"-24")	Solid	05/22/2018 1505	05/22/2018 2100
460-156722-62	SS-009 (18"-24")	Solid	05/22/2018 1510	05/22/2018 2100
460-156722-63	SS-010 (18"-24")	Solid	05/22/2018 1515	05/22/2018 2100



# **SAMPLE RESULTS**



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-025 (0-3")

Lab Sample ID: 460-156722-1

Client Matrix: Solid

% Moisture: 32.0

Date Sampled: 05/22/2018 0755

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-523330	Instrument ID:	CPESTGC4
Prep Method:	3546	Prep Batch:	460-522576	Initial Weight/Volume:	15.0288 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/29/2018 1651			Injection Volume:	1 uL
Prep Date:	05/25/2018 1402			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0098	U	0.0017	0.0098
4,4'-DDE		0.0098	U	0.0012	0.0098
4,4'-DDT		0.025		0.0018	0.0098
Aldrin		0.0098	U	0.0015	0.0098
alpha-BHC		0.0029	U	0.0010	0.0029
beta-BHC		0.0029	U F1	0.0011	0.0029
Chlordane (technical)		0.85		0.024	0.098
delta-BHC		0.0029	U F1	0.00060	0.0029
Dieldrin		0.0029	U	0.0013	0.0029
Endosulfan I		0.0098	U	0.0015	0.0098
Endosulfan II		0.0098	U F1 F2	0.0025	0.0098
Endosulfan sulfate		0.0098	U F1 F2	0.0012	0.0098
Endrin		0.0098	U	0.0014	0.0098
Endrin aldehyde		0.0098	U F1	0.0023	0.0098
Endrin ketone		0.0098	U F1	0.0019	0.0098
gamma-BHC (Lindane)		0.0029	U	0.00091	0.0029
Heptachlor		0.0098	U	0.0012	0.0098
Heptachlor epoxide		0.0098	U	0.0015	0.0098
Methoxychlor		0.0098	U F1	0.0022	0.0098
Toxaphene		0.098	U	0.036	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	133		69 - 150
Tetrachloro-m-xylene	101		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-025 (0-3")**

Lab Sample ID: 460-156722-1

Date Sampled: 05/22/2018 0755

Client Matrix: Solid

% Moisture: 32.0

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0288 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1651

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	114		69 - 150
Tetrachloro-m-xylene	98		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-026 (0-3")**

Lab Sample ID: 460-156722-2

Date Sampled: 05/22/2018 0820

Client Matrix: Solid

% Moisture: 30.6

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523572

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0247 g

Dilution: 10

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 1049

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.096	U	0.016	0.096
4,4'-DDE		0.096	U	0.011	0.096
4,4'-DDT		0.096	U	0.018	0.096
Aldrin		0.096	U	0.015	0.096
alpha-BHC		0.029	U	0.0098	0.029
beta-BHC		0.029	U	0.011	0.029
Chlordane (technical)		12		0.23	0.96
delta-BHC		0.029	U	0.0059	0.029
Dieldrin		0.029	U	0.013	0.029
Endosulfan I		0.096	U	0.015	0.096
Endosulfan II		0.096	U	0.025	0.096
Endosulfan sulfate		0.096	U	0.012	0.096
Endrin		0.096	U	0.014	0.096
Endrin aldehyde		0.096	U	0.023	0.096
Endrin ketone		0.096	U	0.019	0.096
gamma-BHC (Lindane)		0.029	U	0.0089	0.029
Heptachlor		0.096	U	0.011	0.096
Heptachlor epoxide		0.096	U	0.014	0.096
Methoxychlor		0.096	U	0.022	0.096
Toxaphene		0.96	U	0.35	0.96

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	114		69 - 150
Tetrachloro-m-xylene	97		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-026 (0-3")**

Lab Sample ID: 460-156722-2

Date Sampled: 05/22/2018 0820

Client Matrix: Solid

% Moisture: 30.6

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523572

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0247 g

Dilution: 10

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 1049

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	97		69 - 150
Tetrachloro-m-xylene	91		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-027 (0-3")

Lab Sample ID: 460-156722-3

Client Matrix: Solid

% Moisture: 28.4

Date Sampled: 05/22/2018 0840

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0358 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1715

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0093	U	0.0016	0.0093
4,4'-DDE		0.0093	U	0.0011	0.0093
4,4'-DDT		0.0093	U	0.0017	0.0093
Aldrin		0.0093	U	0.0014	0.0093
alpha-BHC		0.0028	U	0.00095	0.0028
beta-BHC		0.0028	U	0.0010	0.0028
Chlordane (technical)		0.99		0.023	0.093
delta-BHC		0.0028	U	0.00057	0.0028
Dieldrin		0.0028	U	0.0012	0.0028
Endosulfan I		0.0093	U	0.0014	0.0093
Endosulfan II		0.0093	U	0.0024	0.0093
Endosulfan sulfate		0.0093	U	0.0012	0.0093
Endrin		0.0093	U	0.0013	0.0093
Endrin aldehyde		0.0093	U	0.0022	0.0093
Endrin ketone		0.0093	U	0.0018	0.0093
gamma-BHC (Lindane)		0.0028	U	0.00086	0.0028
Heptachlor		0.0093	U	0.0011	0.0093
Heptachlor epoxide		0.12		0.0014	0.0093
Methoxychlor		0.0093	U	0.0021	0.0093
Toxaphene		0.093	U	0.034	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	113		69 - 150
Tetrachloro-m-xylene	94		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-027 (0-3")**

Lab Sample ID: 460-156722-3

Date Sampled: 05/22/2018 0840

Client Matrix: Solid

% Moisture: 28.4

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0358 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1715

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	106		69 - 150
Tetrachloro-m-xylene	87		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-027 (18"-24")

Lab Sample ID: 460-156722-4

Date Sampled: 05/22/2018 0845

Client Matrix: Solid

% Moisture: 30.1

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0119 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1728

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0096	U	0.0016	0.0096
4,4'-DDE		0.13		0.0011	0.0096
4,4'-DDT		0.11		0.0018	0.0096
Aldrin		0.0096	U	0.0014	0.0096
alpha-BHC		0.0029	U	0.00097	0.0029
beta-BHC		0.0029	U	0.0011	0.0029
Chlordane (technical)		1.3		0.023	0.096
delta-BHC		0.0029	U	0.00059	0.0029
Dieldrin		0.017		0.0012	0.0029
Endosulfan I		0.0096	U	0.0015	0.0096
Endosulfan II		0.0096	U	0.0025	0.0096
Endosulfan sulfate		0.0096	U	0.0012	0.0096
Endrin		0.0096	U	0.0014	0.0096
Endrin aldehyde		0.0096	U	0.0023	0.0096
Endrin ketone		0.0096	U	0.0019	0.0096
gamma-BHC (Lindane)		0.0029	U	0.00089	0.0029
Heptachlor		0.0096	U	0.0011	0.0096
Heptachlor epoxide		0.11		0.0014	0.0096
Methoxychlor		0.0096	U	0.0022	0.0096
Toxaphene		0.096	U	0.035	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	107		69 - 150
Tetrachloro-m-xylene	95		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-027 (18"-24")**

Lab Sample ID: 460-156722-4

Date Sampled: 05/22/2018 0845

Client Matrix: Solid

% Moisture: 30.1

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0119 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1728

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	105		69 - 150
Tetrachloro-m-xylene	87		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-028 (0-3")

Lab Sample ID: 460-156722-5

Client Matrix: Solid

% Moisture: 14.7

Date Sampled: 05/22/2018 0855

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523572

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0209 g

Dilution: 50

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 1149

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.39	U	0.067	0.39
4,4'-DDE		0.39	U	0.046	0.39
4,4'-DDT		0.39	U	0.072	0.39
Aldrin		0.39	U	0.059	0.39
alpha-BHC		0.12	U	0.040	0.12
beta-BHC		0.12	U	0.044	0.12
Chlordane (technical)		27		0.95	3.9
delta-BHC		0.12	U	0.024	0.12
Dieldrin		0.12	U	0.051	0.12
Endosulfan I		0.39	U	0.060	0.39
Endosulfan II		0.39	U	0.10	0.39
Endosulfan sulfate		0.39	U	0.049	0.39
Endrin		0.39	U	0.056	0.39
Endrin aldehyde		0.39	U	0.092	0.39
Endrin ketone		0.39	U	0.076	0.39
gamma-BHC (Lindane)		0.12	U	0.036	0.12
Heptachlor		0.39	U	0.046	0.39
Heptachlor epoxide		0.39	U	0.059	0.39
Methoxychlor		0.39	U	0.090	0.39
Toxaphene		3.9	U	1.4	3.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	0	X	69 - 150
Tetrachloro-m-xylene	0	X	74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-028 (0-3")**

Lab Sample ID: 460-156722-5

Date Sampled: 05/22/2018 0855

Client Matrix: Solid

% Moisture: 14.7

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523572

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0209 g

Dilution: 50

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 1149

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	0	X	69 - 150
Tetrachloro-m-xylene	0	X	74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-029 (0-3")**

Lab Sample ID: 460-156722-6

Date Sampled: 05/22/2018 0910

Client Matrix: Solid

% Moisture: 15.9

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0369 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1753

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0079	U	0.0014	0.0079
4,4'-DDE		0.013		0.00094	0.0079
4,4'-DDT		0.0067	J	0.0015	0.0079
Aldrin		0.0079	U	0.0012	0.0079
alpha-BHC		0.0024	U	0.00081	0.0024
beta-BHC		0.0024	U	0.00089	0.0024
Chlordane (technical)		0.079	U	0.019	0.079
delta-BHC		0.0024	U	0.00049	0.0024
Dieldrin		0.0024	U	0.0010	0.0024
Endosulfan I		0.0079	U	0.0012	0.0079
Endosulfan II		0.0079	U	0.0020	0.0079
Endosulfan sulfate		0.0079	U	0.0010	0.0079
Endrin		0.0079	U	0.0011	0.0079
Endrin aldehyde		0.0079	U	0.0019	0.0079
Endrin ketone		0.0079	U	0.0015	0.0079
gamma-BHC (Lindane)		0.0024	U	0.00074	0.0024
Heptachlor		0.0079	U	0.00094	0.0079
Heptachlor epoxide		0.0079	U	0.0012	0.0079
Methoxychlor		0.0079	U	0.0018	0.0079
Toxaphene		0.079	U	0.029	0.079

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	88		69 - 150
Tetrachloro-m-xylene	90		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-029 (0-3")**

Lab Sample ID: 460-156722-6

Date Sampled: 05/22/2018 0910

Client Matrix: Solid

% Moisture: 15.9

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0369 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1753

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	88		69 - 150
Tetrachloro-m-xylene	82		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-030 (0-3")

Lab Sample ID: 460-156722-7

Client Matrix: Solid

% Moisture: 22.9

Date Sampled: 05/22/2018 0925

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0345 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1805

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0087	U	0.0015	0.0087
4,4'-DDE		0.0087	U	0.0010	0.0087
4,4'-DDT		0.0051	J	0.0016	0.0087
Aldrin		0.0087	U	0.0013	0.0087
alpha-BHC		0.0026	U	0.00088	0.0026
beta-BHC		0.0026	U	0.00097	0.0026
Chlordane (technical)		0.087	U	0.021	0.087
delta-BHC		0.0026	U	0.00053	0.0026
Dieldrin		0.0026	U	0.0011	0.0026
Endosulfan I		0.0087	U	0.0013	0.0087
Endosulfan II		0.0087	U	0.0022	0.0087
Endosulfan sulfate		0.0087	U	0.0011	0.0087
Endrin		0.0087	U	0.0012	0.0087
Endrin aldehyde		0.0087	U	0.0020	0.0087
Endrin ketone		0.0087	U	0.0017	0.0087
gamma-BHC (Lindane)		0.0026	U	0.00080	0.0026
Heptachlor		0.0087	U	0.0010	0.0087
Heptachlor epoxide		0.0087	U	0.0013	0.0087
Methoxychlor		0.0087	U	0.0020	0.0087
Toxaphene		0.087	U	0.031	0.087

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	89		69 - 150
Tetrachloro-m-xylene	84		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-030 (0-3")**

Lab Sample ID: 460-156722-7

Date Sampled: 05/22/2018 0925

Client Matrix: Solid

% Moisture: 22.9

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0345 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1805

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	85		69 - 150
Tetrachloro-m-xylene	82		74 - 150



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-031 (0-3")

Lab Sample ID: 460-156722-8

Client Matrix: Solid

% Moisture: 38.7

Date Sampled: 05/22/2018 0935

Date Received: 05/22/2018 2100

## 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 05/29/2018 1817

Prep Date: 05/25/2018 1402

Analysis Batch: 460-523330

Prep Batch: 460-522576

Instrument ID: CPESTGC4

Initial Weight/Volume: 15.0481 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.011	U	0.0019	0.011
4,4'-DDE		0.0096	J	0.0013	0.011
4,4'-DDT		0.012		0.0020	0.011
Aldrin		0.011	U	0.0016	0.011
alpha-BHC		0.0033	U	0.0011	0.0033
beta-BHC		0.0033	U	0.0012	0.0033
Chlordane (technical)		0.11	U	0.026	0.11
delta-BHC		0.0033	U	0.00067	0.0033
Dieldrin		0.0033	U	0.0014	0.0033
Endosulfan I		0.011	U	0.0017	0.011
Endosulfan II		0.011	U	0.0028	0.011
Endosulfan sulfate		0.011	U	0.0014	0.011
Endrin		0.011	U	0.0016	0.011
Endrin aldehyde		0.011	U	0.0026	0.011
Endrin ketone		0.011	U	0.0021	0.011
gamma-BHC (Lindane)		0.0033	U	0.0010	0.0033
Heptachlor		0.011	U	0.0013	0.011
Heptachlor epoxide		0.011	U	0.0016	0.011
Methoxychlor		0.011	U	0.0025	0.011
Toxaphene		0.11	U	0.039	0.11

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	83		69 - 150
Tetrachloro-m-xylene	82		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-031 (0-3")**

Lab Sample ID: 460-156722-8

Date Sampled: 05/22/2018 0935

Client Matrix: Solid

% Moisture: 38.7

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0481 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1817

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	79		69 - 150
Tetrachloro-m-xylene	71	X	74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-031 (18"-24")

Lab Sample ID: 460-156722-9

Date Sampled: 05/22/2018 0940

Client Matrix: Solid

% Moisture: 16.4

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0121 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1829

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0080	U	0.0014	0.0080
4,4'-DDE		0.0080	U	0.00094	0.0080
4,4'-DDT		0.0080	U	0.0015	0.0080
Aldrin		0.0080	U	0.0012	0.0080
alpha-BHC		0.0024	U	0.00081	0.0024
beta-BHC		0.0024	U	0.00090	0.0024
Chlordane (technical)		0.080	U	0.019	0.080
delta-BHC		0.0024	U	0.00049	0.0024
Dieldrin		0.0024	U	0.0010	0.0024
Endosulfan I		0.0080	U	0.0012	0.0080
Endosulfan II		0.0080	U	0.0021	0.0080
Endosulfan sulfate		0.0080	U	0.0010	0.0080
Endrin		0.0080	U	0.0011	0.0080
Endrin aldehyde		0.0080	U	0.0019	0.0080
Endrin ketone		0.0080	U	0.0016	0.0080
gamma-BHC (Lindane)		0.0024	U	0.00074	0.0024
Heptachlor		0.0080	U	0.00094	0.0080
Heptachlor epoxide		0.0080	U	0.0012	0.0080
Methoxychlor		0.0080	U	0.0018	0.0080
Toxaphene		0.080	U	0.029	0.080

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	104		69 - 150
Tetrachloro-m-xylene	102		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-031 (18"-24")**

Lab Sample ID: 460-156722-9

Date Sampled: 05/22/2018 0940

Client Matrix: Solid

% Moisture: 16.4

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0121 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1829

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	101		69 - 150
Tetrachloro-m-xylene	84		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-032 (0-3")

Lab Sample ID: 460-156722-10

Client Matrix: Solid

% Moisture: 25.0

Date Sampled: 05/22/2018 1000

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 05/29/2018 1841

Prep Date: 05/25/2018 1402

Analysis Batch: 460-523330

Prep Batch: 460-522576

Instrument ID: CPESTGC4

Initial Weight/Volume: 15.0271 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0089	U	0.0015	0.0089
4,4'-DDE		0.0089	U	0.0011	0.0089
4,4'-DDT		0.0089	U	0.0016	0.0089
Aldrin		0.0089	U	0.0013	0.0089
alpha-BHC		0.0027	U	0.00091	0.0027
beta-BHC		0.0027	U	0.0010	0.0027
Chlordane (technical)		0.089	U	0.022	0.089
delta-BHC		0.0027	U	0.00055	0.0027
Dieldrin		0.0027	U	0.0012	0.0027
Endosulfan I		0.0089	U	0.0014	0.0089
Endosulfan II		0.0089	U	0.0023	0.0089
Endosulfan sulfate		0.0089	U	0.0011	0.0089
Endrin		0.0089	U	0.0013	0.0089
Endrin aldehyde		0.0089	U	0.0021	0.0089
Endrin ketone		0.0089	U	0.0017	0.0089
gamma-BHC (Lindane)		0.0027	U	0.00083	0.0027
Heptachlor		0.0089	U	0.0011	0.0089
Heptachlor epoxide		0.0089	U	0.0013	0.0089
Methoxychlor		0.0089	U	0.0020	0.0089
Toxaphene		0.089	U	0.032	0.089

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	100		69 - 150
Tetrachloro-m-xylene	88		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-032 (0-3")**

Lab Sample ID: 460-156722-10

Date Sampled: 05/22/2018 1000

Client Matrix: Solid

% Moisture: 25.0

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0271 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1841

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	96		69 - 150
Tetrachloro-m-xylene	79		74 - 150



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-033 (0-3")**

Lab Sample ID: 460-156722-11

Date Sampled: 05/22/2018 1015

Client Matrix: Solid

% Moisture: 22.8

Date Received: 05/22/2018 2100

**8081B Organochlorine Pesticides (GC)**

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1852

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0087	U	0.0015	0.0087
4,4'-DDE		0.0087	U	0.0010	0.0087
4,4'-DDT		0.017		0.0016	0.0087
Aldrin		0.0087	U	0.0013	0.0087
alpha-BHC		0.0026	U	0.00088	0.0026
beta-BHC		0.0026	U	0.00097	0.0026
Chlordane (technical)		0.92		0.021	0.087
delta-BHC		0.0026	U	0.00053	0.0026
Dieldrin		0.0026	U	0.0011	0.0026
Endosulfan I		0.0087	U	0.0013	0.0087
Endosulfan II		0.0087	U	0.0022	0.0087
Endosulfan sulfate		0.0087	U	0.0011	0.0087
Endrin		0.0087	U	0.0012	0.0087
Endrin aldehyde		0.0087	U	0.0020	0.0087
Endrin ketone		0.0087	U	0.0017	0.0087
gamma-BHC (Lindane)		0.0026	U	0.00080	0.0026
Heptachlor		0.0087	U	0.0010	0.0087
Heptachlor epoxide		0.21		0.0013	0.0087
Methoxychlor		0.0087	U	0.0020	0.0087
Toxaphene		0.087	U	0.031	0.087

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	149		69 - 150
Tetrachloro-m-xylene	101		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-033 (0-3")**

Lab Sample ID: 460-156722-11

Date Sampled: 05/22/2018 1015

Client Matrix: Solid

% Moisture: 22.8

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1852

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	118		69 - 150
Tetrachloro-m-xylene	96		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-034 (0-3")

Lab Sample ID: 460-156722-12

Client Matrix: Solid

% Moisture: 16.9

Date Sampled: 05/22/2018 1035

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523572

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0285 g

Dilution: 20

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 1113

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.16	U	0.027	0.16
4,4'-DDE		0.16	U	0.019	0.16
4,4'-DDT		0.16	U	0.030	0.16
Aldrin		0.16	U	0.024	0.16
alpha-BHC		0.048	U	0.016	0.048
beta-BHC		0.048	U	0.018	0.048
Chlordane (technical)		14		0.39	1.6
delta-BHC		0.21		0.0098	0.048
Dieldrin		0.048	U	0.021	0.048
Endosulfan I		0.16	U	0.024	0.16
Endosulfan II		0.16	U	0.041	0.16
Endosulfan sulfate		0.16	U	0.020	0.16
Endrin		0.16	U	0.023	0.16
Endrin aldehyde		0.16	U	0.038	0.16
Endrin ketone		0.16	U	0.031	0.16
gamma-BHC (Lindane)		0.048	U	0.015	0.048
Heptachlor		0.16	U	0.019	0.16
Heptachlor epoxide		0.26		0.024	0.16
Methoxychlor		0.16	U	0.037	0.16
Toxaphene		1.6	U	0.58	1.6

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	0	X	69 - 150
Tetrachloro-m-xylene	0	X	74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-034 (0-3")**

Lab Sample ID: 460-156722-12

Date Sampled: 05/22/2018 1035

Client Matrix: Solid

% Moisture: 16.9

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523572

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0285 g

Dilution: 20

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 1113

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	0	X	69 - 150
Tetrachloro-m-xylene	0	X	74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-034 (18"-24")

Lab Sample ID: 460-156722-13

Client Matrix: Solid

% Moisture: 12.6

Date Sampled: 05/22/2018 1040

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 05/29/2018 1917

Prep Date: 05/25/2018 1402

Analysis Batch: 460-523330

Prep Batch: 460-522576

Instrument ID: CPESTGC4

Initial Weight/Volume: 15.0351 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0076	U	0.0013	0.0076
4,4'-DDE		0.0076	U	0.00090	0.0076
4,4'-DDT		0.0076	U	0.0014	0.0076
Aldrin		0.0076	U	0.0012	0.0076
alpha-BHC		0.0023	U	0.00078	0.0023
beta-BHC		0.0023	U	0.00086	0.0023
Chlordane (technical)		1.1		0.018	0.076
delta-BHC		0.0023	U	0.00047	0.0023
Dieldrin		0.0023	U	0.00099	0.0023
Endosulfan I		0.0076	U	0.0012	0.0076
Endosulfan II		0.0076	U	0.0020	0.0076
Endosulfan sulfate		0.0076	U	0.00096	0.0076
Endrin		0.0076	U	0.0011	0.0076
Endrin aldehyde		0.0076	U	0.0018	0.0076
Endrin ketone		0.0076	U	0.0015	0.0076
gamma-BHC (Lindane)		0.0023	U	0.00071	0.0023
Heptachlor		0.0076	U	0.00090	0.0076
Heptachlor epoxide		0.070		0.0011	0.0076
Methoxychlor		0.0076	U	0.0017	0.0076
Toxaphene		0.076	U	0.028	0.076

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	96		69 - 150
Tetrachloro-m-xylene	90		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-034 (18"-24")**

Lab Sample ID: 460-156722-13

Date Sampled: 05/22/2018 1040

Client Matrix: Solid

% Moisture: 12.6

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0351 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1917

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	91		69 - 150
Tetrachloro-m-xylene	89		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-035 (0-3")

Lab Sample ID: 460-156722-14

Client Matrix: Solid

% Moisture: 20.6

Date Sampled: 05/22/2018 1050

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523572

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0358 g

Dilution: 5.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 1126

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.042	U	0.0072	0.042
4,4'-DDE		0.042	U	0.0050	0.042
4,4'-DDT		0.042	U	0.0077	0.042
Aldrin		0.042	U	0.0063	0.042
alpha-BHC		0.013	U	0.0043	0.013
beta-BHC		0.013	U	0.0047	0.013
Chlordane (technical)		3.1		0.10	0.42
delta-BHC		0.013	U	0.0026	0.013
Dieldrin		0.013	U	0.0055	0.013
Endosulfan I		0.042	U	0.0064	0.042
Endosulfan II		0.042	U	0.011	0.042
Endosulfan sulfate		0.042	U	0.0053	0.042
Endrin		0.042	U	0.0060	0.042
Endrin aldehyde		0.042	U	0.0099	0.042
Endrin ketone		0.042	U	0.0082	0.042
gamma-BHC (Lindane)		0.013	U	0.0039	0.013
Heptachlor		0.042	U	0.0050	0.042
Heptachlor epoxide		0.25		0.0063	0.042
Methoxychlor		0.042	U	0.0096	0.042
Toxaphene		0.42	U	0.15	0.42

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	95		69 - 150
Tetrachloro-m-xylene	78		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-035 (0-3")**

Lab Sample ID: 460-156722-14

Date Sampled: 05/22/2018 1050

Client Matrix: Solid

% Moisture: 20.6

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523572

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0358 g

Dilution: 5.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 1126

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	74		69 - 150
Tetrachloro-m-xylene	67	X	74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-036 (0-3")**

Lab Sample ID: 460-156722-15

Date Sampled: 05/22/2018 1105

Client Matrix: Solid

% Moisture: 10.4

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0228 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1941

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0075	U	0.0013	0.0075
4,4'-DDE		0.0075	U	0.00088	0.0075
4,4'-DDT		0.0075	U	0.0014	0.0075
Aldrin		0.0075	U	0.0011	0.0075
alpha-BHC		0.0022	U	0.00076	0.0022
beta-BHC		0.0022	U	0.00084	0.0022
Chlordane (technical)		0.70		0.018	0.075
delta-BHC		0.0022	U	0.00046	0.0022
Dieldrin		0.0080		0.00097	0.0022
Endosulfan I		0.0075	U	0.0011	0.0075
Endosulfan II		0.0075	U	0.0019	0.0075
Endosulfan sulfate		0.0075	U	0.00094	0.0075
Endrin		0.0075	U	0.0011	0.0075
Endrin aldehyde		0.0075	U	0.0018	0.0075
Endrin ketone		0.0075	U	0.0014	0.0075
gamma-BHC (Lindane)		0.0022	U	0.00069	0.0022
Heptachlor		0.0075	U	0.00088	0.0075
Heptachlor epoxide		0.20		0.0011	0.0075
Methoxychlor		0.0075	U	0.0017	0.0075
Toxaphene		0.075	U	0.027	0.075

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	123		69 - 150
Tetrachloro-m-xylene	112		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-036 (0-3")**

Lab Sample ID: 460-156722-15

Date Sampled: 05/22/2018 1105

Client Matrix: Solid

% Moisture: 10.4

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0228 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1941

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	120		69 - 150
Tetrachloro-m-xylene	106		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-036 (18"-24")

Lab Sample ID: 460-156722-16

Date Sampled: 05/22/2018 1110

Client Matrix: Solid

% Moisture: 6.5

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0243 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1953

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0072	U	0.0012	0.0072
4,4'-DDE		0.0072	U	0.00084	0.0072
4,4'-DDT		0.0072	U	0.0013	0.0072
Aldrin		0.0072	U	0.0011	0.0072
alpha-BHC		0.0021	U	0.00073	0.0021
beta-BHC		0.0021	U	0.00080	0.0021
Chlordane (technical)		0.098		0.017	0.072
delta-BHC		0.0021	U	0.00044	0.0021
Dieldrin		0.0021	U	0.00093	0.0021
Endosulfan I		0.0072	U	0.0011	0.0072
Endosulfan II		0.0072	U	0.0018	0.0072
Endosulfan sulfate		0.0072	U	0.00090	0.0072
Endrin		0.0072	U	0.0010	0.0072
Endrin aldehyde		0.0072	U	0.0017	0.0072
Endrin ketone		0.0072	U	0.0014	0.0072
gamma-BHC (Lindane)		0.0021	U	0.00066	0.0021
Heptachlor		0.0072	U	0.00084	0.0072
Heptachlor epoxide		0.017		0.0011	0.0072
Methoxychlor		0.0072	U	0.0016	0.0072
Toxaphene		0.072	U	0.026	0.072

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	85		69 - 150
Tetrachloro-m-xylene	77		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-036 (18"-24")**

Lab Sample ID: 460-156722-16

Date Sampled: 05/22/2018 1110

Client Matrix: Solid

% Moisture: 6.5

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0243 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1953

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	83		69 - 150
Tetrachloro-m-xylene	75		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-037 (0-3")

Lab Sample ID: 460-156722-17

Client Matrix: Solid

% Moisture: 11.9

Date Sampled: 05/22/2018 1125

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 05/29/2018 2005

Prep Date: 05/25/2018 1402

Analysis Batch: 460-523330

Prep Batch: 460-522576

Instrument ID: CPESTGC4

Initial Weight/Volume: 15.0186 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0076	U	0.0013	0.0076
4,4'-DDE		0.0076	U	0.00090	0.0076
4,4'-DDT		0.0076	U	0.0014	0.0076
Aldrin		0.0076	U	0.0011	0.0076
alpha-BHC		0.0023	U	0.00077	0.0023
beta-BHC		0.0023	U	0.00085	0.0023
Chlordane (technical)		0.076	U	0.018	0.076
delta-BHC		0.0023	U	0.00047	0.0023
Dieldrin		0.0023	U	0.00099	0.0023
Endosulfan I		0.0076	U	0.0012	0.0076
Endosulfan II		0.0076	U	0.0020	0.0076
Endosulfan sulfate		0.0076	U	0.00095	0.0076
Endrin		0.0076	U	0.0011	0.0076
Endrin aldehyde		0.0076	U	0.0018	0.0076
Endrin ketone		0.0076	U	0.0015	0.0076
gamma-BHC (Lindane)		0.0023	U	0.00070	0.0023
Heptachlor		0.0076	U	0.00090	0.0076
Heptachlor epoxide		0.0076	U	0.0011	0.0076
Methoxychlor		0.0076	U	0.0017	0.0076
Toxaphene		0.076	U	0.027	0.076

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	98		69 - 150
Tetrachloro-m-xylene	88		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-037 (0-3")**

Lab Sample ID: 460-156722-17

Date Sampled: 05/22/2018 1125

Client Matrix: Solid

% Moisture: 11.9

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0186 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 2005

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	88		69 - 150
Tetrachloro-m-xylene	81		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-038 (0-3")

Lab Sample ID: 460-156722-18

Client Matrix: Solid

% Moisture: 10.8

Date Sampled: 05/22/2018 1140

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 05/29/2018 2016

Prep Date: 05/25/2018 1402

Analysis Batch: 460-523330

Prep Batch: 460-522576

Instrument ID: CPESTGC4

Initial Weight/Volume: 15.0138 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0075	U	0.0013	0.0075
4,4'-DDE		0.015		0.00088	0.0075
4,4'-DDT		0.016		0.0014	0.0075
Aldrin		0.0075	U	0.0011	0.0075
alpha-BHC		0.0022	U	0.00076	0.0022
beta-BHC		0.0022	U	0.00084	0.0022
Chlordane (technical)		0.075	U	0.018	0.075
delta-BHC		0.0022	U	0.00046	0.0022
Dieldrin		0.0022	U	0.00097	0.0022
Endosulfan I		0.0075	U	0.0011	0.0075
Endosulfan II		0.0075	U	0.0019	0.0075
Endosulfan sulfate		0.0075	U	0.00094	0.0075
Endrin		0.0075	U	0.0011	0.0075
Endrin aldehyde		0.0075	U	0.0018	0.0075
Endrin ketone		0.0075	U	0.0015	0.0075
gamma-BHC (Lindane)		0.0022	U	0.00069	0.0022
Heptachlor		0.0075	U	0.00088	0.0075
Heptachlor epoxide		0.0075	U	0.0011	0.0075
Methoxychlor		0.0075	U	0.0017	0.0075
Toxaphene		0.075	U	0.027	0.075

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	108		69 - 150
Tetrachloro-m-xylene	92		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-038 (0-3")**

Lab Sample ID: 460-156722-18

Date Sampled: 05/22/2018 1140

Client Matrix: Solid

% Moisture: 10.8

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0138 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 2016

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	100		69 - 150
Tetrachloro-m-xylene	91		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-038 (18"-24")

Lab Sample ID: 460-156722-19

Client Matrix: Solid

% Moisture: 6.7

Date Sampled: 05/22/2018 1143

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-523330	Instrument ID:	CPESTGC4
Prep Method:	3546	Prep Batch:	460-522576	Initial Weight/Volume:	15.0193 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/29/2018 2029			Injection Volume:	1 uL
Prep Date:	05/25/2018 1402			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0072	U	0.0012	0.0072
4,4'-DDE		0.0072	U	0.00085	0.0072
4,4'-DDT		0.0072	U	0.0013	0.0072
Aldrin		0.0072	U	0.0011	0.0072
alpha-BHC		0.0021	U	0.00073	0.0021
beta-BHC		0.0021	U	0.00080	0.0021
Chlordane (technical)		0.16		0.017	0.072
delta-BHC		0.0021	U	0.00044	0.0021
Dieldrin		0.0021	U	0.00093	0.0021
Endosulfan I		0.0072	U	0.0011	0.0072
Endosulfan II		0.0072	U	0.0018	0.0072
Endosulfan sulfate		0.0072	U	0.00090	0.0072
Endrin		0.0072	U	0.0010	0.0072
Endrin aldehyde		0.0072	U	0.0017	0.0072
Endrin ketone		0.0072	U	0.0014	0.0072
gamma-BHC (Lindane)		0.0021	U	0.00066	0.0021
Heptachlor		0.0072	U	0.00085	0.0072
Heptachlor epoxide		0.0034	J	0.0011	0.0072
Methoxychlor		0.0072	U	0.0016	0.0072
Toxaphene		0.072	U	0.026	0.072

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	112		69 - 150
Tetrachloro-m-xylene	97		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-038 (18"-24")**

Lab Sample ID: 460-156722-19

Date Sampled: 05/22/2018 1143

Client Matrix: Solid

% Moisture: 6.7

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523330

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0193 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 2029

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	106		69 - 150
Tetrachloro-m-xylene	96		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-039 (0-3")

Lab Sample ID: 460-156722-20

Client Matrix: Solid

% Moisture: 14.1

Date Sampled: 05/22/2018 1155

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 5.0

Analysis Date: 05/30/2018 1214

Prep Date: 05/25/2018 1402

Analysis Batch: 460-523572

Prep Batch: 460-522576

Run Type: DL

Instrument ID: CPESTGC4

Initial Weight/Volume: 15.0101 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.039	U	0.0066	0.039
4,4'-DDE		0.039	U	0.0046	0.039
4,4'-DDT		0.039	U	0.0072	0.039
Aldrin		0.039	U	0.0059	0.039
alpha-BHC		0.012	U	0.0040	0.012
beta-BHC		0.012	U	0.0044	0.012
Chlordane (technical)		2.0		0.094	0.39
delta-BHC		0.012	U	0.0024	0.012
Dieldrin		0.012	U	0.0051	0.012
Endosulfan I		0.039	U	0.0059	0.039
Endosulfan II		0.039	U	0.010	0.039
Endosulfan sulfate		0.039	U	0.0049	0.039
Endrin		0.039	U	0.0056	0.039
Endrin aldehyde		0.039	U	0.0092	0.039
Endrin ketone		0.039	U	0.0076	0.039
gamma-BHC (Lindane)		0.012	U	0.0036	0.012
Heptachlor		0.039	U	0.0046	0.039
Heptachlor epoxide		0.16		0.0058	0.039
Methoxychlor		0.039	U	0.0089	0.039
Toxaphene		0.39	U	0.14	0.39

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	92		69 - 150
Tetrachloro-m-xylene	79		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-039 (0-3")**

Lab Sample ID: 460-156722-20

Date Sampled: 05/22/2018 1155

Client Matrix: Solid

% Moisture: 14.1

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523572

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-522576

Initial Weight/Volume: 15.0101 g

Dilution: 5.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 1214

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/25/2018 1402

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	78		69 - 150
Tetrachloro-m-xylene	77		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-040 (0-3")

Lab Sample ID: 460-156722-31

Client Matrix: Solid

% Moisture: 11.7

Date Sampled: 05/22/2018 1245

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0127 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0053

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0076	U	0.0013	0.0076
4,4'-DDE		0.0076	U	0.00089	0.0076
4,4'-DDT		0.0038	J	0.0014	0.0076
Aldrin		0.0076	U	0.0011	0.0076
alpha-BHC		0.0023	U	0.00077	0.0023
beta-BHC		0.0023	U	0.00085	0.0023
Chlordane (technical)		0.076	U	0.018	0.076
delta-BHC		0.0023	U	0.00046	0.0023
Dieldrin		0.0023	U	0.00098	0.0023
Endosulfan I		0.0076	U	0.0012	0.0076
Endosulfan II		0.0076	U	0.0019	0.0076
Endosulfan sulfate		0.0076	U	0.00095	0.0076
Endrin		0.0076	U	0.0011	0.0076
Endrin aldehyde		0.0076	U	0.0018	0.0076
Endrin ketone		0.0076	U	0.0015	0.0076
gamma-BHC (Lindane)		0.0023	U	0.00070	0.0023
Heptachlor		0.0076	U	0.00089	0.0076
Heptachlor epoxide		0.015		0.0011	0.0076
Methoxychlor		0.0076	U	0.0017	0.0076
Toxaphene		0.076	U	0.027	0.076

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	107		69 - 150
Tetrachloro-m-xylene	106		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-040 (0-3")**

Lab Sample ID: 460-156722-31

Date Sampled: 05/22/2018 1245

Client Matrix: Solid

% Moisture: 11.7

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0127 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0053

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	104		69 - 150
Tetrachloro-m-xylene	98		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: **SS-041 (0-3")**

Lab Sample ID: 460-156722-32

Client Matrix: Solid

% Moisture: 16.9

Date Sampled: 05/22/2018 1315

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 05/30/2018 0105

Prep Date: 05/28/2018 0119

Analysis Batch: 460-523371

Prep Batch: 460-523075

Instrument ID: CPESTGC4

Initial Weight/Volume: 15.0123 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0081	U	0.0014	0.0081
4,4'-DDE		0.0081	U	0.00095	0.0081
4,4'-DDT		0.0081	U	0.0015	0.0081
Aldrin		0.0081	U	0.0012	0.0081
alpha-BHC		0.0024	U	0.00082	0.0024
beta-BHC		0.0024	U	0.00090	0.0024
Chlordane (technical)		0.081	U	0.019	0.081
delta-BHC		0.0024	U	0.00049	0.0024
Dieldrin		0.0024	U	0.0010	0.0024
Endosulfan I		0.0081	U	0.0012	0.0081
Endosulfan II		0.0081	U	0.0021	0.0081
Endosulfan sulfate		0.0081	U	0.0010	0.0081
Endrin		0.0081	U	0.0012	0.0081
Endrin aldehyde		0.0081	U	0.0019	0.0081
Endrin ketone		0.0081	U	0.0016	0.0081
gamma-BHC (Lindane)		0.0024	U	0.00075	0.0024
Heptachlor		0.0081	U	0.00095	0.0081
Heptachlor epoxide		0.0081	U	0.0012	0.0081
Methoxychlor		0.0081	U	0.0018	0.0081
Toxaphene		0.081	U	0.029	0.081

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	157	X	69 - 150
Tetrachloro-m-xylene	104		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-041 (0-3")**

Lab Sample ID: 460-156722-32

Date Sampled: 05/22/2018 1315

Client Matrix: Solid

% Moisture: 16.9

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0123 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0105

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	108		69 - 150
Tetrachloro-m-xylene	100		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-041 (18"-24")

Lab Sample ID: 460-156722-33

Date Sampled: 05/22/2018 1320

Client Matrix: Solid

% Moisture: 11.3

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0116 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0117

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0075	U	0.0013	0.0075
4,4'-DDE		0.0075	U	0.00089	0.0075
4,4'-DDT		0.0075	U	0.0014	0.0075
Aldrin		0.0075	U	0.0011	0.0075
alpha-BHC		0.0023	U	0.00077	0.0023
beta-BHC		0.0023	U	0.00084	0.0023
Chlordane (technical)		0.075	U	0.018	0.075
delta-BHC		0.0023	U	0.00046	0.0023
Dieldrin		0.0023	U	0.00098	0.0023
Endosulfan I		0.0075	U	0.0011	0.0075
Endosulfan II		0.0075	U	0.0019	0.0075
Endosulfan sulfate		0.0075	U	0.00095	0.0075
Endrin		0.0075	U	0.0011	0.0075
Endrin aldehyde		0.0075	U	0.0018	0.0075
Endrin ketone		0.0075	U	0.0015	0.0075
gamma-BHC (Lindane)		0.0023	U	0.00070	0.0023
Heptachlor		0.0075	U	0.00089	0.0075
Heptachlor epoxide		0.0075	U	0.0011	0.0075
Methoxychlor		0.0075	U	0.0017	0.0075
Toxaphene		0.075	U	0.027	0.075

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	120		69 - 150
Tetrachloro-m-xylene	120		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-041 (18"-24")**

Lab Sample ID: 460-156722-33

Date Sampled: 05/22/2018 1320

Client Matrix: Solid

% Moisture: 11.3

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0116 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0117

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	117		69 - 150
Tetrachloro-m-xylene	106		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-042 (0-3")

Lab Sample ID: 460-156722-34

Client Matrix: Solid

% Moisture: 11.6

Date Sampled: 05/22/2018 1330

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 05/30/2018 0130

Prep Date: 05/28/2018 0119

Analysis Batch: 460-523371

Prep Batch: 460-523075

Instrument ID: CPESTGC4

Initial Weight/Volume: 15.0121 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0076	U	0.0013	0.0076
4,4'-DDE		0.0047	J	0.00089	0.0076
4,4'-DDT		0.0076	U	0.0014	0.0076
Aldrin		0.0076	U	0.0011	0.0076
alpha-BHC		0.0023	U	0.00077	0.0023
beta-BHC		0.0023	U	0.00085	0.0023
Chlordane (technical)		0.31		0.018	0.076
delta-BHC		0.0023	U	0.00046	0.0023
Dieldrin		0.0023	U	0.00098	0.0023
Endosulfan I		0.0076	U	0.0012	0.0076
Endosulfan II		0.0076	U	0.0019	0.0076
Endosulfan sulfate		0.0076	U	0.00095	0.0076
Endrin		0.0076	U	0.0011	0.0076
Endrin aldehyde		0.0076	U	0.0018	0.0076
Endrin ketone		0.0076	U	0.0015	0.0076
gamma-BHC (Lindane)		0.0023	U	0.00070	0.0023
Heptachlor		0.0076	U	0.00089	0.0076
Heptachlor epoxide		0.052		0.0011	0.0076
Methoxychlor		0.0076	U	0.0017	0.0076
Toxaphene		0.076	U	0.027	0.076

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	107		69 - 150
Tetrachloro-m-xylene	103		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-042 (0-3")**

Lab Sample ID: 460-156722-34

Date Sampled: 05/22/2018 1330

Client Matrix: Solid

% Moisture: 11.6

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0121 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0130

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	103		69 - 150
Tetrachloro-m-xylene	95		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-043 (0-3")

Lab Sample ID: 460-156722-35

Client Matrix: Solid

% Moisture: 9.0

Date Sampled: 05/22/2018 1340

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 05/30/2018 0142

Prep Date: 05/28/2018 0119

Analysis Batch: 460-523371

Prep Batch: 460-523075

Instrument ID: CPESTGC4

Initial Weight/Volume: 15.0127 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0074	U	0.0013	0.0074
4,4'-DDE		0.0074	U	0.00087	0.0074
4,4'-DDT		0.0074	U	0.0014	0.0074
Aldrin		0.0074	U	0.0011	0.0074
alpha-BHC		0.0022	U	0.00075	0.0022
beta-BHC		0.0022	U	0.00082	0.0022
Chlordane (technical)		0.074	U	0.018	0.074
delta-BHC		0.0022	U	0.00045	0.0022
Dieldrin		0.0022	U	0.00095	0.0022
Endosulfan I		0.0074	U	0.0011	0.0074
Endosulfan II		0.0074	U	0.0019	0.0074
Endosulfan sulfate		0.0074	U	0.00092	0.0074
Endrin		0.0074	U	0.0011	0.0074
Endrin aldehyde		0.0074	U	0.0017	0.0074
Endrin ketone		0.0074	U	0.0014	0.0074
gamma-BHC (Lindane)		0.0022	U	0.00068	0.0022
Heptachlor		0.0074	U	0.00087	0.0074
Heptachlor epoxide		0.0076		0.0011	0.0074
Methoxychlor		0.0074	U	0.0017	0.0074
Toxaphene		0.074	U	0.027	0.074

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	109		69 - 150
Tetrachloro-m-xylene	110		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-043 (0-3")**

Lab Sample ID: 460-156722-35

Date Sampled: 05/22/2018 1340

Client Matrix: Solid

% Moisture: 9.0

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0127 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0142

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	105		69 - 150
Tetrachloro-m-xylene	102		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-043 (18"-24")**

Lab Sample ID: 460-156722-36

Date Sampled: 05/22/2018 1345

Client Matrix: Solid

% Moisture: 5.9

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0204 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0153

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0071	U	0.0012	0.0071
4,4'-DDE		0.0071	U	0.00084	0.0071
4,4'-DDT		0.0071	U	0.0013	0.0071
Aldrin		0.0071	U	0.0011	0.0071
alpha-BHC		0.0021	U	0.00072	0.0021
beta-BHC		0.0021	U	0.00080	0.0021
Chlordane (technical)		0.071	U	0.017	0.071
delta-BHC		0.0021	U	0.00044	0.0021
Dieldrin		0.0021	U	0.00092	0.0021
Endosulfan I		0.0071	U	0.0011	0.0071
Endosulfan II		0.0071	U	0.0018	0.0071
Endosulfan sulfate		0.0071	U	0.00089	0.0071
Endrin		0.0071	U	0.0010	0.0071
Endrin aldehyde		0.0071	U	0.0017	0.0071
Endrin ketone		0.0071	U	0.0014	0.0071
gamma-BHC (Lindane)		0.0021	U	0.00066	0.0021
Heptachlor		0.0071	U	0.00084	0.0071
Heptachlor epoxide		0.0071	U	0.0011	0.0071
Methoxychlor		0.0071	U	0.0016	0.0071
Toxaphene		0.071	U	0.026	0.071

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	108		69 - 150
Tetrachloro-m-xylene	102		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-043 (18"-24")**

Lab Sample ID: 460-156722-36

Date Sampled: 05/22/2018 1345

Client Matrix: Solid

% Moisture: 5.9

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0204 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0153

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	106		69 - 150
Tetrachloro-m-xylene	96		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-044 (0-3")**

Lab Sample ID: 460-156722-37

Date Sampled: 05/22/2018 1355

Client Matrix: Solid

% Moisture: 11.9

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0118 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0206

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0076	U	0.0013	0.0076
4,4'-DDE		0.0076	U	0.00090	0.0076
4,4'-DDT		0.0076	U	0.0014	0.0076
Aldrin		0.0076	U	0.0011	0.0076
alpha-BHC		0.0023	U	0.00077	0.0023
beta-BHC		0.0023	U	0.00085	0.0023
Chlordane (technical)		0.18		0.018	0.076
delta-BHC		0.0023	U	0.00047	0.0023
Dieldrin		0.0023	U	0.00099	0.0023
Endosulfan I		0.0076	U	0.0012	0.0076
Endosulfan II		0.0076	U	0.0020	0.0076
Endosulfan sulfate		0.0076	U	0.00095	0.0076
Endrin		0.0076	U	0.0011	0.0076
Endrin aldehyde		0.0076	U	0.0018	0.0076
Endrin ketone		0.0076	U	0.0015	0.0076
gamma-BHC (Lindane)		0.0023	U	0.00070	0.0023
Heptachlor		0.0076	U	0.00090	0.0076
Heptachlor epoxide		0.0076	U	0.0011	0.0076
Methoxychlor		0.0076	U	0.0017	0.0076
Toxaphene		0.076	U	0.027	0.076

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	112		69 - 150
Tetrachloro-m-xylene	112		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-044 (0-3")**

Lab Sample ID: 460-156722-37

Date Sampled: 05/22/2018 1355

Client Matrix: Solid

% Moisture: 11.9

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0118 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0206

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	110		69 - 150
Tetrachloro-m-xylene	112		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-045 (0-3")

Lab Sample ID: 460-156722-38

Client Matrix: Solid

% Moisture: 19.7

Date Sampled: 05/22/2018 1410

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0120 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0218

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0083	U	0.0014	0.0083
4,4'-DDE		0.0083	U	0.00098	0.0083
4,4'-DDT		0.0083	U	0.0015	0.0083
Aldrin		0.0083	U	0.0013	0.0083
alpha-BHC		0.0025	U	0.00085	0.0025
beta-BHC		0.0025	U	0.00093	0.0025
Chlordane (technical)		0.083	U	0.020	0.083
delta-BHC		0.0025	U	0.00051	0.0025
Dieldrin		0.0025	U	0.0011	0.0025
Endosulfan I		0.0083	U	0.0013	0.0083
Endosulfan II		0.0083	U	0.0021	0.0083
Endosulfan sulfate		0.0083	U	0.0010	0.0083
Endrin		0.0083	U	0.0012	0.0083
Endrin aldehyde		0.0083	U	0.0020	0.0083
Endrin ketone		0.0083	U	0.0016	0.0083
gamma-BHC (Lindane)		0.0025	U	0.00077	0.0025
Heptachlor		0.0083	U	0.00098	0.0083
Heptachlor epoxide		0.0083	U	0.0012	0.0083
Methoxychlor		0.0083	U	0.0019	0.0083
Toxaphene		0.083	U	0.030	0.083

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	111		69 - 150
Tetrachloro-m-xylene	105		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-045 (0-3")**

Lab Sample ID: 460-156722-38

Date Sampled: 05/22/2018 1410

Client Matrix: Solid

% Moisture: 19.7

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0120 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0218

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	103		69 - 150
Tetrachloro-m-xylene	105		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-007 (18"-24")

Lab Sample ID: 460-156722-39

Date Sampled: 05/22/2018 1500

Client Matrix: Solid

% Moisture: 11.6

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0125 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0230

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0076	U	0.0013	0.0076
4,4'-DDE		0.0076	U	0.00089	0.0076
4,4'-DDT		0.0076	U	0.0014	0.0076
Aldrin		0.0076	U	0.0011	0.0076
alpha-BHC		0.0023	U	0.00077	0.0023
beta-BHC		0.0023	U	0.00085	0.0023
Chlordane (technical)		0.076	U	0.018	0.076
delta-BHC		0.0023	U	0.00046	0.0023
Dieldrin		0.0023	U	0.00098	0.0023
Endosulfan I		0.0076	U	0.0012	0.0076
Endosulfan II		0.0076	U	0.0019	0.0076
Endosulfan sulfate		0.0076	U	0.00095	0.0076
Endrin		0.0076	U	0.0011	0.0076
Endrin aldehyde		0.0076	U	0.0018	0.0076
Endrin ketone		0.0076	U	0.0015	0.0076
gamma-BHC (Lindane)		0.0023	U	0.00070	0.0023
Heptachlor		0.0076	U	0.00089	0.0076
Heptachlor epoxide		0.011		0.0011	0.0076
Methoxychlor		0.0076	U	0.0017	0.0076
Toxaphene		0.076	U	0.027	0.076

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	99		69 - 150
Tetrachloro-m-xylene	112		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-007 (18"-24")**

Lab Sample ID: 460-156722-39

Date Sampled: 05/22/2018 1500

Client Matrix: Solid

% Moisture: 11.6

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0125 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0230

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	98		69 - 150
Tetrachloro-m-xylene	99		74 - 150



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: Dup-003

Lab Sample ID: 460-156722-40

Client Matrix: Solid

% Moisture: 17.0

Date Sampled: 05/22/2018 0000

Date Received: 05/22/2018 2100

## 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-523572	Instrument ID:	CPESTGC4
Prep Method:	3546	Prep Batch:	460-523075	Initial Weight/Volume:	15.0123 g
Dilution:	5.0			Final Weight/Volume:	10 mL
Analysis Date:	05/30/2018 1202	Run Type:	DL	Injection Volume:	1 uL
Prep Date:	05/28/2018 0119			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.040	U	0.0069	0.040
4,4'-DDE		0.040	U	0.0048	0.040
4,4'-DDT		0.040	U	0.0074	0.040
Aldrin		0.040	U	0.0061	0.040
alpha-BHC		0.012	U	0.0041	0.012
beta-BHC		0.012	U	0.0045	0.012
Chlordane (technical)		3.0		0.097	0.40
delta-BHC		0.012	U	0.0025	0.012
Dieldrin		0.012	U	0.0052	0.012
Endosulfan I		0.040	U	0.0061	0.040
Endosulfan II		0.040	U	0.010	0.040
Endosulfan sulfate		0.040	U	0.0051	0.040
Endrin		0.040	U	0.0058	0.040
Endrin aldehyde		0.040	U	0.0095	0.040
Endrin ketone		0.040	U	0.0078	0.040
gamma-BHC (Lindane)		0.012	U	0.0037	0.012
Heptachlor		0.040	U	0.0048	0.040
Heptachlor epoxide		0.040	U	0.0060	0.040
Methoxychlor		0.040	U	0.0092	0.040
Toxaphene		0.40	U	0.15	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	105		69 - 150
Tetrachloro-m-xylene	108		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: Dup-003**

Lab Sample ID: 460-156722-40

Date Sampled: 05/22/2018 0000

Client Matrix: Solid

% Moisture: 17.0

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523572

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0123 g

Dilution: 5.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 1202

Run Type: DL

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	93		69 - 150
Tetrachloro-m-xylene	78		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: Dup-004

Lab Sample ID: 460-156722-41

Date Sampled: 05/22/2018 0000

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0119 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0255

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0077	U	0.0013	0.0077
4,4'-DDE		0.0077	U	0.00091	0.0077
4,4'-DDT		0.0077	U	0.0014	0.0077
Aldrin		0.0077	U	0.0012	0.0077
alpha-BHC		0.0023	U	0.00078	0.0023
beta-BHC		0.0023	U	0.00086	0.0023
Chlordane (technical)		0.077	U	0.019	0.077
delta-BHC		0.0023	U	0.00047	0.0023
Dieldrin		0.0023	U	0.0010	0.0023
Endosulfan I		0.0077	U	0.0012	0.0077
Endosulfan II		0.0077	U	0.0020	0.0077
Endosulfan sulfate		0.0077	U	0.00096	0.0077
Endrin		0.0077	U	0.0011	0.0077
Endrin aldehyde		0.0077	U	0.0018	0.0077
Endrin ketone		0.0077	U	0.0015	0.0077
gamma-BHC (Lindane)		0.0023	U	0.00071	0.0023
Heptachlor		0.0077	U	0.00091	0.0077
Heptachlor epoxide		0.057		0.0011	0.0077
Methoxychlor		0.0077	U	0.0018	0.0077
Toxaphene		0.077	U	0.028	0.077

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	109		69 - 150
Tetrachloro-m-xylene	100		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: Dup-004**

Lab Sample ID: 460-156722-41

Date Sampled: 05/22/2018 0000

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523371

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-523075

Initial Weight/Volume: 15.0119 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/30/2018 0255

Injection Volume: 1 uL

Prep Date: 05/28/2018 0119

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	106		69 - 150
Tetrachloro-m-xylene	99		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-025 (18"-24")**

Lab Sample ID: 460-156722-42

Date Sampled: 05/22/2018 0800

Client Matrix: Solid

% Moisture: 22.9

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-525493

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0233 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/06/2018 1158

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.88		0.021	0.087

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	92		69 - 150
Tetrachloro-m-xylene	92		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-025 (18"-24")**

Lab Sample ID: 460-156722-42

Date Sampled: 05/22/2018 0800

Client Matrix: Solid

% Moisture: 22.9

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-525493

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0233 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/06/2018 1158

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	90		69 - 150
Tetrachloro-m-xylene	88		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-026 (18"-24")**

Lab Sample ID: 460-156722-43

Date Sampled: 05/22/2018 0825

Client Matrix: Solid

% Moisture: 21.4

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-525493

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0492 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/06/2018 1555

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		1.4		0.021	0.085
Heptachlor epoxide		0.0085	U	0.0013	0.0085
Surrogate		%Rec	Qualifier	Acceptance Limits	
DCB Decachlorobiphenyl		83		69 - 150	
Tetrachloro-m-xylene		81		74 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-026 (18"-24")**

Lab Sample ID: 460-156722-43

Date Sampled: 05/22/2018 0825

Client Matrix: Solid

% Moisture: 21.4

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-525493

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0492 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/06/2018 1555

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	76		69 - 150
Tetrachloro-m-xylene	80		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-028 (18"-24")**

Lab Sample ID: 460-156722-44

Date Sampled: 05/22/2018 0900

Client Matrix: Solid

% Moisture: 5.2

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0333 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0034

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.64		0.017	0.070
Heptachlor epoxide		0.018		0.0011	0.0070

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	103		69 - 150
Tetrachloro-m-xylene	85		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-028 (18"-24")**

Lab Sample ID: 460-156722-44

Date Sampled: 05/22/2018 0900

Client Matrix: Solid

% Moisture: 5.2

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0333 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0034

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	101		69 - 150
Tetrachloro-m-xylene	82		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-033 (18"-24")

Lab Sample ID: 460-156722-48

Date Sampled: 05/22/2018 1020

Client Matrix: Solid

% Moisture: 18.2

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0496 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0046

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.082	U	0.020	0.082
Heptachlor epoxide		0.012		0.0012	0.0082

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	105		69 - 150
Tetrachloro-m-xylene	91		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-033 (18"-24")**

Lab Sample ID: 460-156722-48

Date Sampled: 05/22/2018 1020

Client Matrix: Solid

% Moisture: 18.2

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0496 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0046

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	102		69 - 150
Tetrachloro-m-xylene	89		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-035 (18"-24")

Lab Sample ID: 460-156722-49

Date Sampled: 05/22/2018 1055

Client Matrix: Solid

% Moisture: 8.6

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0285 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0058

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.91		0.018	0.073
Heptachlor epoxide		0.072		0.0011	0.0073

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	93		69 - 150
Tetrachloro-m-xylene	80		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-035 (18"-24")**

Lab Sample ID: 460-156722-49

Date Sampled: 05/22/2018 1055

Client Matrix: Solid

% Moisture: 8.6

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0285 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0058

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	91		69 - 150
Tetrachloro-m-xylene	76		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-039 (18"-24")

Lab Sample ID: 460-156722-51

Date Sampled: 05/22/2018 1200

Client Matrix: Solid

% Moisture: 18.7

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0122 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0110

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.24		0.020	0.082
Heptachlor epoxide		0.031		0.0012	0.0082

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	95		69 - 150
Tetrachloro-m-xylene	81		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-039 (18"-24")**

Lab Sample ID: 460-156722-51

Date Sampled: 05/22/2018 1200

Client Matrix: Solid

% Moisture: 18.7

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0122 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0110

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	91		69 - 150
Tetrachloro-m-xylene	79		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-042 (18"-24")

Lab Sample ID: 460-156722-53

Date Sampled: 05/22/2018 1335

Client Matrix: Solid

% Moisture: 5.1

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0247 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0123

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.46		0.017	0.070
Heptachlor epoxide		0.10		0.0011	0.0070

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	88		69 - 150
Tetrachloro-m-xylene	78		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-042 (18"-24")**

Lab Sample ID: 460-156722-53

Date Sampled: 05/22/2018 1335

Client Matrix: Solid

% Moisture: 5.1

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0247 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0123

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	88		69 - 150
Tetrachloro-m-xylene	76		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-044 (18"-24")

Lab Sample ID: 460-156722-54

Date Sampled: 05/22/2018 1400

Client Matrix: Solid

% Moisture: 7.0

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0296 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0135

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.077	p	0.017	0.072
Surrogate		%Rec	Qualifier	Acceptance Limits	
DCB Decachlorobiphenyl		94		69 - 150	
Tetrachloro-m-xylene		81		74 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-044 (18"-24")**

Lab Sample ID: 460-156722-54

Date Sampled: 05/22/2018 1400

Client Matrix: Solid

% Moisture: 7.0

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0296 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0135

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	89		69 - 150
Tetrachloro-m-xylene	78		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-001 (18"-24")

Lab Sample ID: 460-156722-56

Date Sampled: 05/22/2018 1415

Client Matrix: Solid

% Moisture: 19.8

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0214 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0147

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		1.7		0.020	0.083
Heptachlor epoxide		0.12		0.0012	0.0083
Surrogate		%Rec	Qualifier	Acceptance Limits	
DCB Decachlorobiphenyl		101		69 - 150	
Tetrachloro-m-xylene		87		74 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-001 (18"-24")**

Lab Sample ID: 460-156722-56

Date Sampled: 05/22/2018 1415

Client Matrix: Solid

% Moisture: 19.8

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0214 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0147

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	93		69 - 150
Tetrachloro-m-xylene	82		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-002 (18"-24")

Lab Sample ID: 460-156722-57

Date Sampled: 05/22/2018 1435

Client Matrix: Solid

% Moisture: 12.0

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0200

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.12	p	0.018	0.076
Heptachlor epoxide		0.014		0.0011	0.0076

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	104		69 - 150
Tetrachloro-m-xylene	92		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-002 (18"-24")**

Lab Sample ID: 460-156722-57

Date Sampled: 05/22/2018 1435

Client Matrix: Solid

% Moisture: 12.0

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0200

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	101		69 - 150
Tetrachloro-m-xylene	90		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-005 (18"-24")

Lab Sample ID: 460-156722-59

Date Sampled: 05/22/2018 1450

Client Matrix: Solid

% Moisture: 13.6

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0244 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0212

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.093	p	0.019	0.077
Heptachlor epoxide		0.017		0.0012	0.0077

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	99		69 - 150
Tetrachloro-m-xylene	87		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-005 (18"-24")**

Lab Sample ID: 460-156722-59

Date Sampled: 05/22/2018 1450

Client Matrix: Solid

% Moisture: 13.6

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0244 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0212

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	97		69 - 150
Tetrachloro-m-xylene	86		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-006 (18"-24")

Lab Sample ID: 460-156722-60

Date Sampled: 05/22/2018 1455

Client Matrix: Solid

% Moisture: 17.2

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0247 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0224

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.15	p	0.020	0.081
Heptachlor epoxide		0.021		0.0012	0.0081

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	104		69 - 150
Tetrachloro-m-xylene	89		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-006 (18"-24")**

Lab Sample ID: 460-156722-60

Date Sampled: 05/22/2018 1455

Client Matrix: Solid

% Moisture: 17.2

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0247 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0224

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	100		69 - 150
Tetrachloro-m-xylene	87		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-008 (18"-24")

Lab Sample ID: 460-156722-61

Date Sampled: 05/22/2018 1505

Client Matrix: Solid

% Moisture: 11.2

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0233 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0236

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.075	U	0.018	0.075
Heptachlor epoxide		0.0075		0.0011	0.0075

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	98		69 - 150
Tetrachloro-m-xylene	89		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-008 (18"-24")**

Lab Sample ID: 460-156722-61

Date Sampled: 05/22/2018 1505

Client Matrix: Solid

% Moisture: 11.2

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0233 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0236

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	98		69 - 150
Tetrachloro-m-xylene	86		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-009 (18"-24")

Lab Sample ID: 460-156722-62

Date Sampled: 05/22/2018 1510

Client Matrix: Solid

% Moisture: 10.1

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0214 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0248

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		0.15	p	0.018	0.074
Heptachlor epoxide		0.035		0.0011	0.0074

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	96		69 - 150
Tetrachloro-m-xylene	84		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-009 (18"-24")**

Lab Sample ID: 460-156722-62

Date Sampled: 05/22/2018 1510

Client Matrix: Solid

% Moisture: 10.1

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-524991

Instrument ID: CPESTGC4

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0214 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/05/2018 0248

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	94		69 - 150
Tetrachloro-m-xylene	84		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-010 (18"-24")

Lab Sample ID: 460-156722-63

Date Sampled: 05/22/2018 1515

Client Matrix: Solid

% Moisture: 10.9

Date Received: 05/22/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-525493

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/06/2018 1342

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chlordane (technical)		1.2		0.018	0.075
Heptachlor epoxide		0.0075	U	0.0011	0.0075
Surrogate		%Rec	Qualifier	Acceptance Limits	
DCB Decachlorobiphenyl		91		69 - 150	
Tetrachloro-m-xylene		86		74 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-010 (18"-24")**

Lab Sample ID: 460-156722-63

Date Sampled: 05/22/2018 1515

Client Matrix: Solid

% Moisture: 10.9

Date Received: 05/22/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-525493

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-524559

Initial Weight/Volume: 15.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/06/2018 1342

Injection Volume: 1 uL

Prep Date: 06/02/2018 0915

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	83		69 - 150
Tetrachloro-m-xylene	85		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-025 (0-3")

Lab Sample ID: 460-156722-1

Client Matrix: Solid

% Moisture: 32.0

Date Sampled: 05/22/2018 0755

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0310 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2040

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.049	U	0.010	0.049
2,4-D		0.049	U	0.018	0.049
Silvex (2,4,5-TP)		0.049	U	0.0051	0.049

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	130		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-025 (0-3")**

Lab Sample ID: 460-156722-1

Date Sampled: 05/22/2018 0755

Client Matrix: Solid

% Moisture: 32.0

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0310 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2040

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	128		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-026 (0-3")

Lab Sample ID: 460-156722-2

Client Matrix: Solid

% Moisture: 30.6

Date Sampled: 05/22/2018 0820

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0397 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2055

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.048	U	0.010	0.048
2,4-D		0.048	U	0.017	0.048
Silvex (2,4,5-TP)		0.048	U	0.0050	0.048

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	88		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-026 (0-3")**

Lab Sample ID: 460-156722-2

Date Sampled: 05/22/2018 0820

Client Matrix: Solid

% Moisture: 30.6

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0397 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2055

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	86		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-027 (0-3")

Lab Sample ID: 460-156722-3

Client Matrix: Solid

% Moisture: 28.4

Date Sampled: 05/22/2018 0840

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0465 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2109

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.046	U	0.0099	0.046
2,4-D		0.046	U	0.017	0.046
Silvex (2,4,5-TP)		0.046	U	0.0048	0.046

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	133		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-027 (0-3")**

Lab Sample ID: 460-156722-3

Date Sampled: 05/22/2018 0840

Client Matrix: Solid

% Moisture: 28.4

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0465 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2109

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	124		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-027 (18"-24")

Lab Sample ID: 460-156722-4

Date Sampled: 05/22/2018 0845

Client Matrix: Solid

% Moisture: 30.1

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0447 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2124

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.048	U	0.010	0.048
2,4-D		0.048	U	0.017	0.048
Silvex (2,4,5-TP)		0.048	U	0.0050	0.048

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	138		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-027 (18"-24")**

Lab Sample ID: 460-156722-4

Date Sampled: 05/22/2018 0845

Client Matrix: Solid

% Moisture: 30.1

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0447 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2124

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	128		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-028 (0-3")

Lab Sample ID: 460-156722-5

Client Matrix: Solid

% Moisture: 14.7

Date Sampled: 05/22/2018 0855

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0389 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2139

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.039	U	0.0083	0.039
2,4-D		0.039	U	0.014	0.039
Silvex (2,4,5-TP)		0.039	U	0.0041	0.039

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	116		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-028 (0-3")**

Lab Sample ID: 460-156722-5

Date Sampled: 05/22/2018 0855

Client Matrix: Solid

% Moisture: 14.7

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0389 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2139

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	110		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-029 (0-3")

Lab Sample ID: 460-156722-6

Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 05/22/2018 0910

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0295 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2208

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0084	0.040
2,4-D		0.040	U	0.014	0.040
Silvex (2,4,5-TP)		0.040	U	0.0041	0.040

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	139		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-029 (0-3")**

Lab Sample ID: 460-156722-6

Date Sampled: 05/22/2018 0910

Client Matrix: Solid

% Moisture: 15.9

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0295 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2208

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	137		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-030 (0-3")

Lab Sample ID: 460-156722-7

Client Matrix: Solid

% Moisture: 22.9

Date Sampled: 05/22/2018 0925

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0348 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2223

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.043	U	0.0092	0.043
2,4-D		0.043	U	0.016	0.043
Silvex (2,4,5-TP)		0.043	U	0.0045	0.043

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	133		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-030 (0-3")**

Lab Sample ID: 460-156722-7

Date Sampled: 05/22/2018 0925

Client Matrix: Solid

% Moisture: 22.9

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0348 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2223

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	128		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-031 (0-3")

Lab Sample ID: 460-156722-8

Client Matrix: Solid

% Moisture: 38.7

Date Sampled: 05/22/2018 0935

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0462 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2238

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.054	U	0.012	0.054
2,4-D		0.054	U	0.020	0.054
Silvex (2,4,5-TP)		0.054	U	0.0057	0.054

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	139		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-031 (0-3")**

Lab Sample ID: 460-156722-8

Date Sampled: 05/22/2018 0935

Client Matrix: Solid

% Moisture: 38.7

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0462 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2238

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	127		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-031 (18"-24")**

Lab Sample ID: 460-156722-9

Date Sampled: 05/22/2018 0940

Client Matrix: Solid

% Moisture: 16.4

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0497 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2252

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0085	0.040
2,4-D		0.040	U	0.014	0.040
Silvex (2,4,5-TP)		0.040	U	0.0041	0.040

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	138		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-031 (18"-24")**

Lab Sample ID: 460-156722-9

Date Sampled: 05/22/2018 0940

Client Matrix: Solid

% Moisture: 16.4

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0497 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2252

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	128		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-032 (0-3")

Lab Sample ID: 460-156722-10

Client Matrix: Solid

% Moisture: 25.0

Date Sampled: 05/22/2018 1000

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2307

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.044	U	0.0094	0.044
2,4-D		0.044	U	0.016	0.044
Silvex (2,4,5-TP)		0.044	U	0.0046	0.044

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	148		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-032 (0-3")**

Lab Sample ID: 460-156722-10

Date Sampled: 05/22/2018 1000

Client Matrix: Solid

% Moisture: 25.0

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0299 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2307

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	109		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-033 (0-3")

Lab Sample ID: 460-156722-11

Client Matrix: Solid

% Moisture: 22.8

Date Sampled: 05/22/2018 1015

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0205 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2322

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.043	U	0.0092	0.043
2,4-D		0.043	U	0.016	0.043
Silvex (2,4,5-TP)		0.043	U	0.0045	0.043
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		130		80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-033 (0-3")**

Lab Sample ID: 460-156722-11

Date Sampled: 05/22/2018 1015

Client Matrix: Solid

% Moisture: 22.8

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0205 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2322

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	103		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-034 (0-3")

Lab Sample ID: 460-156722-12

Client Matrix: Solid

% Moisture: 16.9

Date Sampled: 05/22/2018 1035

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0374 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2337

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0085	0.040
2,4-D		0.040	U	0.015	0.040
Silvex (2,4,5-TP)		0.040	U	0.0042	0.040

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	105		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-034 (0-3")**

Lab Sample ID: 460-156722-12

Date Sampled: 05/22/2018 1035

Client Matrix: Solid

% Moisture: 16.9

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0374 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2337

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	105		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-034 (18"-24")**

Lab Sample ID: 460-156722-13

Date Sampled: 05/22/2018 1040

Client Matrix: Solid

% Moisture: 12.6

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0411 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2351

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.038	U	0.0081	0.038
2,4-D		0.038	U	0.014	0.038
Silvex (2,4,5-TP)		0.038	U	0.0040	0.038
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		121		80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-034 (18"-24")**

Lab Sample ID: 460-156722-13

Date Sampled: 05/22/2018 1040

Client Matrix: Solid

% Moisture: 12.6

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0411 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/25/2018 2351

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	115		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-035 (0-3")

Lab Sample ID: 460-156722-14

Client Matrix: Solid

% Moisture: 20.6

Date Sampled: 05/22/2018 1050

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0320 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/26/2018 0006

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.042	U	0.0089	0.042
2,4-D		0.042	U	0.015	0.042
Silvex (2,4,5-TP)		0.042	U	0.0044	0.042

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	143		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-035 (0-3")**

Lab Sample ID: 460-156722-14

Date Sampled: 05/22/2018 1050

Client Matrix: Solid

% Moisture: 20.6

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0320 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/26/2018 0006

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	98		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-036 (0-3")

Lab Sample ID: 460-156722-15

Client Matrix: Solid

% Moisture: 10.4

Date Sampled: 05/22/2018 1105

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0339 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/26/2018 0020

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.037	U	0.0079	0.037
2,4-D		0.037	U	0.013	0.037
Silvex (2,4,5-TP)		0.037	U	0.0039	0.037

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	144		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-036 (0-3")**

Lab Sample ID: 460-156722-15

Date Sampled: 05/22/2018 1105

Client Matrix: Solid

% Moisture: 10.4

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522539

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522380

Initial Weight/Volume: 30.0339 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/26/2018 0020

Injection Volume: 1 uL

Prep Date: 05/25/2018 0127

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	132		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-036 (18"-24")

Lab Sample ID: 460-156722-16

Date Sampled: 05/22/2018 1110

Client Matrix: Solid

% Moisture: 6.5

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0407 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1428

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.036	U	0.0076	0.036
2,4-D		0.036	U	0.013	0.036
Silvex (2,4,5-TP)		0.036	U	0.0037	0.036

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	131		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-036 (18"-24")**

Lab Sample ID: 460-156722-16

Date Sampled: 05/22/2018 1110

Client Matrix: Solid

% Moisture: 6.5

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0407 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1428

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	131		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-037 (0-3")

Lab Sample ID: 460-156722-17

Client Matrix: Solid

% Moisture: 11.9

Date Sampled: 05/22/2018 1125

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0291 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1443

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.038	U	0.0080	0.038
2,4-D		0.038	U	0.014	0.038
Silvex (2,4,5-TP)		0.038	U	0.0039	0.038

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	135		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-037 (0-3")**

Lab Sample ID: 460-156722-17

Date Sampled: 05/22/2018 1125

Client Matrix: Solid

% Moisture: 11.9

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0291 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1443

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	127		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-038 (0-3")

Lab Sample ID: 460-156722-18

Client Matrix: Solid

% Moisture: 10.8

Date Sampled: 05/22/2018 1140

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0443 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1457

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.037	U	0.0079	0.037
2,4-D		0.037	U	0.014	0.037
Silvex (2,4,5-TP)		0.037	U	0.0039	0.037

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	138		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-038 (0-3")**

Lab Sample ID: 460-156722-18

Date Sampled: 05/22/2018 1140

Client Matrix: Solid

% Moisture: 10.8

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0443 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1457

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	114		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-038 (18"-24")**

Lab Sample ID: 460-156722-19

Date Sampled: 05/22/2018 1143

Client Matrix: Solid

% Moisture: 6.7

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0498 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1512

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.036	U	0.0076	0.036
2,4-D		0.036	U	0.013	0.036
Silvex (2,4,5-TP)		0.036	U	0.0037	0.036

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	150		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-038 (18"-24")**

Lab Sample ID: 460-156722-19

Date Sampled: 05/22/2018 1143

Client Matrix: Solid

% Moisture: 6.7

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0498 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1512

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	120		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-039 (0-3")

Lab Sample ID: 460-156722-20

Client Matrix: Solid

% Moisture: 14.1

Date Sampled: 05/22/2018 1155

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0383 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1526

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.039	U	0.0082	0.039
2,4-D		0.039	U	0.014	0.039
Silvex (2,4,5-TP)		0.039	U	0.0040	0.039

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	135		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-039 (0-3")**

Lab Sample ID: 460-156722-20

Date Sampled: 05/22/2018 1155

Client Matrix: Solid

% Moisture: 14.1

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0383 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1526

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	133		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-040 (0-3")

Lab Sample ID: 460-156722-31

Client Matrix: Solid

% Moisture: 11.7

Date Sampled: 05/22/2018 1245

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0245 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1542

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.038	U	0.0080	0.038
2,4-D		0.038	U	0.014	0.038
Silvex (2,4,5-TP)		0.038	U	0.0039	0.038

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	147		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-040 (0-3")**

Lab Sample ID: 460-156722-31

Date Sampled: 05/22/2018 1245

Client Matrix: Solid

% Moisture: 11.7

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0245 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1542

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	110		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: **SS-041 (0-3")**

Lab Sample ID: 460-156722-32

Date Sampled: 05/22/2018 1315

Client Matrix: Solid

% Moisture: 16.9

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0316 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1556

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0085	0.040
2,4-D		0.040	U	0.015	0.040
Silvex (2,4,5-TP)		0.040	U	0.0042	0.040
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		131		80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-041 (0-3")**

Lab Sample ID: 460-156722-32

Date Sampled: 05/22/2018 1315

Client Matrix: Solid

% Moisture: 16.9

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0316 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1556

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	109		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-041 (18"-24")

Lab Sample ID: 460-156722-33

Date Sampled: 05/22/2018 1320

Client Matrix: Solid

% Moisture: 11.3

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0280 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1850

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.037	U	0.0080	0.037
2,4-D		0.037	U	0.014	0.037
Silvex (2,4,5-TP)		0.037	U	0.0039	0.037

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	144		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-041 (18"-24")**

Lab Sample ID: 460-156722-33

Date Sampled: 05/22/2018 1320

Client Matrix: Solid

% Moisture: 11.3

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0280 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1850

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	133		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-042 (0-3")

Lab Sample ID: 460-156722-34

Client Matrix: Solid

% Moisture: 11.6

Date Sampled: 05/22/2018 1330

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0463 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1905

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.038	U	0.0080	0.038
2,4-D		0.038	U	0.014	0.038
Silvex (2,4,5-TP)		0.038	U	0.0039	0.038
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		174	X	80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-042 (0-3")**

Lab Sample ID: 460-156722-34

Date Sampled: 05/22/2018 1330

Client Matrix: Solid

% Moisture: 11.6

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0463 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1905

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	120		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: **SS-043 (0-3")**

Lab Sample ID: 460-156722-35

Date Sampled: 05/22/2018 1340

Client Matrix: Solid

% Moisture: 9.0

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0491 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1920

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.037	U	0.0078	0.037
2,4-D		0.037	U	0.013	0.037
Silvex (2,4,5-TP)		0.037	U	0.0038	0.037

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	148		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-043 (0-3")**

Lab Sample ID: 460-156722-35

Date Sampled: 05/22/2018 1340

Client Matrix: Solid

% Moisture: 9.0

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0491 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1920

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	128		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-043 (18"-24")

Lab Sample ID: 460-156722-36

Date Sampled: 05/22/2018 1345

Client Matrix: Solid

% Moisture: 5.9

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0455 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1934

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.035	U	0.0075	0.035
2,4-D		0.035	U	0.013	0.035
Silvex (2,4,5-TP)		0.035	U	0.0037	0.035

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	147		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-043 (18"-24")**

Lab Sample ID: 460-156722-36

Date Sampled: 05/22/2018 1345

Client Matrix: Solid

% Moisture: 5.9

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0455 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1934

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	134		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: **SS-044 (0-3")**

Lab Sample ID: 460-156722-37

Date Sampled: 05/22/2018 1355

Client Matrix: Solid

% Moisture: 11.9

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0276 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1949

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.038	U	0.0080	0.038
2,4-D		0.038	U	0.014	0.038
Silvex (2,4,5-TP)		0.038	U	0.0039	0.038
Surrogate		%Rec	Qualifier	Acceptance Limits	
2,4-Dichlorophenylacetic acid		131		80 - 150	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-044 (0-3")**

Lab Sample ID: 460-156722-37

Date Sampled: 05/22/2018 1355

Client Matrix: Solid

% Moisture: 11.9

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0276 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 1949

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	107		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-045 (0-3")

Lab Sample ID: 460-156722-38

Client Matrix: Solid

% Moisture: 19.7

Date Sampled: 05/22/2018 1410

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0311 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 2004

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.041	U	0.0088	0.041
2,4-D		0.041	U	0.015	0.041
Silvex (2,4,5-TP)		0.041	U	0.0043	0.041

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	142		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-045 (0-3")**

Lab Sample ID: 460-156722-38

Date Sampled: 05/22/2018 1410

Client Matrix: Solid

% Moisture: 19.7

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0311 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 2004

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	133		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-007 (18"-24")**

Lab Sample ID: 460-156722-39

Date Sampled: 05/22/2018 1500

Client Matrix: Solid

% Moisture: 11.6

Date Received: 05/22/2018 2100

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0470 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 2018

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.038	U	0.0080	0.038
2,4-D		0.038	U	0.014	0.038
Silvex (2,4,5-TP)		0.038	U	0.0039	0.038

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	137		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-007 (18"-24")**

Lab Sample ID: 460-156722-39

Date Sampled: 05/22/2018 1500

Client Matrix: Solid

% Moisture: 11.6

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0470 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 2018

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	125		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: Dup-003**

Lab Sample ID: 460-156722-40

Date Sampled: 05/22/2018 0000

Client Matrix: Solid

% Moisture: 17.0

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0369 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 2033

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.040	U	0.0085	0.040
2,4-D		0.040	U	0.015	0.040
Silvex (2,4,5-TP)		0.040	U	0.0042	0.040

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	91	p	80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: Dup-003**

Lab Sample ID: 460-156722-40

Date Sampled: 05/22/2018 0000

Client Matrix: Solid

% Moisture: 17.0

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0369 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 2033

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	148		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: Dup-004**

Lab Sample ID: 460-156722-41

Date Sampled: 05/22/2018 0000

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0395 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 2048

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
2,4,5-T		0.038	U	0.0081	0.038
2,4-D		0.038	U	0.014	0.038
Silvex (2,4,5-TP)		0.038	U	0.0040	0.038

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	149		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: Dup-004**

Lab Sample ID: 460-156722-41

Date Sampled: 05/22/2018 0000

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/22/2018 2100

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-523232

Instrument ID: CPESTGC3

Prep Method: 8151A

Prep Batch: 460-522752

Initial Weight/Volume: 30.0395 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 05/29/2018 2048

Injection Volume: 1 uL

Prep Date: 05/26/2018 0033

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	137		80 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID:** SS-025 (0-3")

Lab Sample ID: 460-156722-1

Client Matrix: Solid

% Moisture: 32.0

Date Sampled: 05/22/2018 0755

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523244

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/30/2018 1117

Final Weight/Volume: 50 mL

Prep Date: 05/29/2018 1100

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7470		11.8	57.6
Antimony		5.8	U	0.69	5.8
Arsenic		7.2		1.1	4.3
Barium		22.8	J	4.7	57.6
Beryllium		0.29	J	0.066	0.58
Cadmium		1.2	U	0.17	1.2
Calcium		1210	J	147	1440
Chromium		22.2		0.80	2.9
Cobalt		1.9	J	1.6	14.4
Copper		8.7		1.6	7.2
Iron		9130		7.8	43.2
Lead		18.0		0.87	2.9
Magnesium		885	J	111	1440
Manganese		135		0.45	4.3
Nickel		5.3	J	1.1	11.5
Potassium		261	J	76.7	1440
Selenium		5.8	U	1.7	5.8
Silver		2.9	U	0.44	2.9
Sodium		1440	U	111	1440
Thallium		5.8	U	1.7	5.8
Vanadium		16.1		1.7	14.4
Zinc		35.8		0.75	8.6

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.63 g

Analysis Date: 05/31/2018 1237

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.4		0.070	0.12



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-026 (0-3")**

Lab Sample ID: 460-156722-2

Date Sampled: 05/22/2018 0820

Client Matrix: Solid

% Moisture: 30.6

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523244

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.00 g

Analysis Date: 05/30/2018 1121

Final Weight/Volume: 50 mL

Prep Date: 05/29/2018 1100

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1320		11.8	57.6
Antimony		5.8	U	0.69	5.8
Arsenic		1.5	J	1.1	4.3
Barium		21.1	J	4.7	57.6
Beryllium		0.12	J	0.066	0.58
Cadmium		7.3		0.17	1.2
Calcium		1420	J	147	1440
Chromium		67.3		0.80	2.9
Cobalt		14.4	U	1.6	14.4
Copper		10.9		1.6	7.2
Iron		4540		7.8	43.2
Lead		11.0		0.87	2.9
Magnesium		428	J	111	1440
Manganese		304		0.45	4.3
Nickel		2.5	J	1.1	11.5
Potassium		140	J	76.6	1440
Selenium		5.8	U	1.7	5.8
Silver		2.9	U	0.44	2.9
Sodium		1440	U	111	1440
Thallium		5.8	U	1.7	5.8
Vanadium		7.2	J	1.7	14.4
Zinc		56.0		0.74	8.6

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 40

Initial Weight/Volume: 0.60 g

Analysis Date: 05/31/2018 1238

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		33.4		0.58	0.98



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-027 (0-3")

Lab Sample ID: 460-156722-3

Client Matrix: Solid

% Moisture: 28.4

Date Sampled: 05/22/2018 0840

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523244

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/30/2018 1125

Final Weight/Volume: 50 mL

Prep Date: 05/29/2018 1100

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2530		11.2	54.8
Antimony		5.5	U	0.66	5.5
Arsenic		3.2	J	1.0	4.1
Barium		17.2	J	4.4	54.8
Beryllium		0.17	J	0.063	0.55
Cadmium		0.18	J	0.16	1.1
Calcium		1060	J	140	1370
Chromium		25.1		0.76	2.7
Cobalt		1.7	J	1.6	13.7
Copper		11.7		1.5	6.8
Iron		5980		7.4	41.1
Lead		15.0		0.83	2.7
Magnesium		625	J	106	1370
Manganese		242		0.42	4.1
Nickel		4.0	J	1.0	11.0
Potassium		178	J	72.8	1370
Selenium		5.5	U	1.7	5.5
Silver		2.7	U	0.42	2.7
Sodium		1370	U	105	1370
Thallium		5.5	U	1.6	5.5
Vanadium		9.0	J	1.6	13.7
Zinc		42.0		0.71	8.2

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 10

Initial Weight/Volume: 0.64 g

Analysis Date: 05/31/2018 1241

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.8		0.13	0.22



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID:** SS-027 (18"-24")

Lab Sample ID: 460-156722-4

Date Sampled: 05/22/2018 0845

Client Matrix: Solid

% Moisture: 30.1

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523244

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/30/2018 1129

Final Weight/Volume: 50 mL

Prep Date: 05/29/2018 1100

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11300		11.5	56.1
Antimony		5.6	U	0.67	5.6
Arsenic		25.9		1.0	4.2
Barium		35.6	J	4.5	56.1
Beryllium		0.45	J	0.065	0.56
Cadmium		0.50	J	0.17	1.1
Calcium		2720		143	1400
Chromium		43.4		0.78	2.8
Cobalt		3.2	J	1.6	14.0
Copper		24.1		1.6	7.0
Iron		12600		7.6	42.1
Lead		30.8		0.85	2.8
Magnesium		1500		108	1400
Manganese		239		0.43	4.2
Nickel		8.0	J	1.1	11.2
Potassium		338	J	74.6	1400
Selenium		5.6	U	1.7	5.6
Silver		2.8	U	0.43	2.8
Sodium		1400	U	108	1400
Thallium		5.6	U	1.7	5.6
Vanadium		23.1		1.7	14.0
Zinc		65.7		0.72	8.4

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 20

Initial Weight/Volume: 0.61 g

Analysis Date: 05/31/2018 1243

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		6.9		0.28	0.48



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-028 (0-3")

Lab Sample ID: 460-156722-5

Client Matrix: Solid

% Moisture: 14.7

Date Sampled: 05/22/2018 0855

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/30/2018 1957

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2590		9.3	45.5
Antimony		4.6	U	0.55	4.6
Arsenic		11.2		0.84	3.4
Barium		19.9	J	3.7	45.5
Beryllium		0.16	J	0.052	0.46
Cadmium		6.9		0.14	0.91
Calcium		1520		116	1140
Chromium		43.0		0.63	2.3
Cobalt		1.7	J	1.3	11.4
Copper		13.8		1.3	5.7
Iron		5050		6.1	34.1
Lead		14.2		0.69	2.3
Magnesium		780	J	87.7	1140
Manganese		186		0.35	3.4
Nickel		4.6	J	0.86	9.1
Potassium		208	J	60.5	1140
Selenium		4.6	U	1.4	4.6
Silver		2.3	U	0.35	2.3
Sodium		1140	U	87.6	1140
Thallium		4.6	U	1.3	4.6
Vanadium		8.2	J	1.4	11.4
Zinc		60.1		0.59	6.8

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-523623

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523508

Lab File ID: 523480HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.66 g

Analysis Date: 05/30/2018 1130

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0528

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.6		0.053	0.091



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID:** SS-029 (0-3")

Lab Sample ID: 460-156722-6

Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 05/22/2018 0910

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/30/2018 1819

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3620		9.6	46.6
Antimony		4.7	U	0.56	4.7
Arsenic		1.5	J	0.86	3.5
Barium		15.3	J	3.8	46.6
Beryllium		0.17	J	0.054	0.47
Cadmium		0.93	U	0.14	0.93
Calcium		207	J	119	1170
Chromium		6.4		0.65	2.3
Cobalt		1.3	J	1.3	11.7
Copper		13.3		1.3	5.8
Iron		5800		6.3	35.0
Lead		11.7		0.70	2.3
Magnesium		588	J	89.9	1170
Manganese		51.0		0.36	3.5
Nickel		3.2	J	0.88	9.3
Potassium		164	J	62.0	1170
Selenium		4.7	U	1.4	4.7
Silver		2.3	U	0.36	2.3
Sodium		1170	U	89.7	1170
Thallium		4.7	U	1.4	4.7
Vanadium		10.1	J	1.4	11.7
Zinc		49.9		0.60	7.0

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-523623

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523508

Lab File ID: 523480HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.60 g

Analysis Date: 05/30/2018 1133

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0528

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.043		0.012	0.020



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-030 (0-3")**

Lab Sample ID: 460-156722-7

Date Sampled: 05/22/2018 0925

Client Matrix: Solid

% Moisture: 22.9

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/30/2018 1823

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1650		10.4	50.9
Antimony		5.1	U	0.61	5.1
Arsenic		2.1	J	0.94	3.8
Barium		8.1	J	4.1	50.9
Beryllium		0.091	J	0.059	0.51
Cadmium		1.0	U	0.15	1.0
Calcium		428	J	130	1270
Chromium		2.9		0.71	2.5
Cobalt		12.7	U	1.4	12.7
Copper		4.7	J	1.4	6.4
Iron		3790		6.9	38.2
Lead		22.2		0.77	2.5
Magnesium		208	J	98.1	1270
Manganese		44.4		0.39	3.8
Nickel		1.8	J	0.97	10.2
Potassium		130	J	67.7	1270
Selenium		5.1	U	1.5	5.1
Silver		2.5	U	0.39	2.5
Sodium		1270	U	97.9	1270
Thallium		5.1	U	1.5	5.1
Vanadium		11.9	J	1.5	12.7
Zinc		7.5	J	0.66	7.6

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-523623

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523508

Lab File ID: 523480HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 05/30/2018 1114

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0528

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.11		0.013	0.022



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-031 (0-3")**

Lab Sample ID: 460-156722-8

Date Sampled: 05/22/2018 0935

Client Matrix: Solid

% Moisture: 38.7

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/30/2018 1839

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1230		13.3	64.7
Antimony		6.5	U	0.78	6.5
Arsenic		4.8	U	1.2	4.8
Barium		13.6	J	5.2	64.7
Beryllium		0.65	U	0.074	0.65
Cadmium		0.22	J	0.19	1.3
Calcium		885	J	165	1620
Chromium		2.0	J	0.90	3.2
Cobalt		16.2	U	1.8	16.2
Copper		4.2	J	1.8	8.1
Iron		1870		8.7	48.5
Lead		13.9		0.98	3.2
Magnesium		209	J	125	1620
Manganese		25.1		0.50	4.8
Nickel		1.7	J	1.2	12.9
Potassium		149	J	86.0	1620
Selenium		6.5	U	2.0	6.5
Silver		3.2	U	0.49	3.2
Sodium		1620	U	124	1620
Thallium		6.5	U	1.9	6.5
Vanadium		6.6	J	1.9	16.2
Zinc		16.8		0.84	9.7

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-523623

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523508

Lab File ID: 523480HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.60 g

Analysis Date: 05/30/2018 1116

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0528

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.060		0.016	0.028



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-031 (18"-24")**

Lab Sample ID: 460-156722-9

Date Sampled: 05/22/2018 0940

Client Matrix: Solid

% Moisture: 16.4

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/30/2018 1843

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5390		9.5	46.4
Antimony		4.6	U	0.56	4.6
Arsenic		0.94	J	0.86	3.5
Barium		7.0	J	3.8	46.4
Beryllium		0.13	J	0.053	0.46
Cadmium		0.93	U	0.14	0.93
Calcium		1160	U	118	1160
Chromium		5.3		0.64	2.3
Cobalt		11.6	U	1.3	11.6
Copper		2.0	J	1.3	5.8
Iron		7180		6.3	34.8
Lead		7.6		0.70	2.3
Magnesium		336	J	89.5	1160
Manganese		19.0		0.36	3.5
Nickel		2.0	J	0.88	9.3
Potassium		145	J	61.7	1160
Selenium		4.6	U	1.4	4.6
Silver		2.3	U	0.35	2.3
Sodium		1160	U	89.4	1160
Thallium		4.6	U	1.4	4.6
Vanadium		12.5		1.4	11.6
Zinc		5.6	J	0.60	7.0

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-523623

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523508

Lab File ID: 523480HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 05/30/2018 1118

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0528

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.024		0.011	0.019



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-032 (0-3")**

Lab Sample ID: 460-156722-10

Date Sampled: 05/22/2018 1000

Client Matrix: Solid

% Moisture: 25.0

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/30/2018 1847

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5210		10.8	52.8
Antimony		5.3	U	0.63	5.3
Arsenic		2.9	J	0.98	4.0
Barium		355		4.3	52.8
Beryllium		0.64		0.061	0.53
Cadmium		1.1	U	0.16	1.1
Calcium		497	J	135	1320
Chromium		7.8		0.73	2.6
Cobalt		6.0	J	1.5	13.2
Copper		10.4		1.5	6.6
Iron		6700		7.1	39.6
Lead		24.6		0.80	2.6
Magnesium		361	J	102	1320
Manganese		1070		0.41	4.0
Nickel		5.9	J	1.0	10.6
Potassium		109	J	70.3	1320
Selenium		5.3	U	1.6	5.3
Silver		2.6	U	0.40	2.6
Sodium		1320	U	102	1320
Thallium		5.3	U	1.6	5.3
Vanadium		17.9		1.6	13.2
Zinc		27.6		0.68	7.9

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.60 g

Analysis Date: 05/31/2018 1245

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.088		0.013	0.023



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-033 (0-3")**

Lab Sample ID: 460-156722-11

Date Sampled: 05/22/2018 1015

Client Matrix: Solid

% Moisture: 22.8

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.04 g

Analysis Date: 05/30/2018 1851

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4600		10.2	49.9
Antimony		5.0	U	0.60	5.0
Arsenic		2.3	J	0.92	3.7
Barium		18.8	J	4.0	49.9
Beryllium		0.17	J	0.057	0.50
Cadmium		0.95	J	0.15	1.0
Calcium		1750		127	1250
Chromium		52.6		0.69	2.5
Cobalt		12.5	U	1.4	12.5
Copper		7.0		1.4	6.2
Iron		6110		6.7	37.4
Lead		28.1		0.75	2.5
Magnesium		536	J	96.1	1250
Manganese		166		0.39	3.7
Nickel		3.4	J	0.95	10
Potassium		108	J	66.3	1250
Selenium		5.0	U	1.5	5.0
Silver		2.5	U	0.38	2.5
Sodium		1250	U	96.0	1250
Thallium		5.0	U	1.5	5.0
Vanadium		11.5	J	1.5	12.5
Zinc		47.5		0.64	7.5

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 20

Initial Weight/Volume: 0.61 g

Analysis Date: 05/31/2018 1248

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		9.5		0.25	0.43



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-034 (0-3")**

Lab Sample ID: 460-156722-12

Date Sampled: 05/22/2018 1035

Client Matrix: Solid

% Moisture: 16.9

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/30/2018 1855

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1370		9.6	46.7
Antimony		4.7	U	0.56	4.7
Arsenic		3.5	U	0.86	3.5
Barium		13.9	J	3.8	46.7
Beryllium		0.12	J	0.054	0.47
Cadmium		3.6		0.14	0.93
Calcium		1200		119	1170
Chromium		31.1		0.65	2.3
Cobalt		11.7	U	1.3	11.7
Copper		10.7		1.3	5.8
Iron		4090		6.3	35.0
Lead		9.8		0.71	2.3
Magnesium		662	J	90.0	1170
Manganese		216		0.36	3.5
Nickel		2.5	J	0.89	9.3
Potassium		120	J	62.1	1170
Selenium		4.7	U	1.4	4.7
Silver		2.3	U	0.36	2.3
Sodium		1170	U	89.9	1170
Thallium		4.7	U	1.4	4.7
Vanadium		6.0	J	1.4	11.7
Zinc		52.2		0.60	7.0

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 20

Initial Weight/Volume: 0.63 g

Analysis Date: 05/31/2018 1254

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		5.8		0.23	0.39



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-034 (18"-24")**

Lab Sample ID: 460-156722-13

Date Sampled: 05/22/2018 1040

Client Matrix: Solid

% Moisture: 12.6

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.00 g

Analysis Date: 05/30/2018 1858

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11000		9.4	45.8
Antimony		4.6	U	0.55	4.6
Arsenic		14.8		0.85	3.4
Barium		18.1	J	3.7	45.8
Beryllium		0.32	J	0.053	0.46
Cadmium		0.33	J	0.14	0.92
Calcium		680	J	117	1140
Chromium		16.8		0.63	2.3
Cobalt		1.8	J	1.3	11.4
Copper		5.3	J	1.3	5.7
Iron		13800		6.2	34.3
Lead		16.2		0.69	2.3
Magnesium		836	J	88.2	1140
Manganese		56.1		0.35	3.4
Nickel		6.4	J	0.87	9.2
Potassium		300	J	60.9	1140
Selenium		4.6	U	1.4	4.6
Silver		2.3	U	0.35	2.3
Sodium		1140	U	88.1	1140
Thallium		4.6	U	1.3	4.6
Vanadium		23.7		1.4	11.4
Zinc		46.9		0.59	6.9

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 2.0

Initial Weight/Volume: 0.62 g

Analysis Date: 05/31/2018 1256

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.2		0.022	0.038



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID:** SS-035 (0-3")

Lab Sample ID: 460-156722-14

Client Matrix: Solid

% Moisture: 20.6

Date Sampled: 05/22/2018 1050

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.00 g

Analysis Date: 05/30/2018 1902

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4470		10.3	50.3
Antimony		5.0	U	0.60	5.0
Arsenic		2.7	J	0.93	3.8
Barium		18.1	J	4.1	50.3
Beryllium		0.17	J	0.058	0.50
Cadmium		0.37	J	0.15	1.0
Calcium		1030	J	128	1260
Chromium		15.6		0.70	2.5
Cobalt		4.9	J	1.4	12.6
Copper		8.4		1.4	6.3
Iron		6430		6.8	37.8
Lead		19.1		0.76	2.5
Magnesium		346	J	97.0	1260
Manganese		638		0.39	3.8
Nickel		4.7	J	0.96	10.1
Potassium		88.7	J	67.0	1260
Selenium		5.0	U	1.5	5.0
Silver		2.5	U	0.38	2.5
Sodium		1260	U	96.9	1260
Thallium		5.0	U	1.5	5.0
Vanadium		13.1		1.5	12.6
Zinc		30.5		0.65	7.6

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.64 g

Analysis Date: 05/31/2018 1258

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.0		0.059	0.10



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-036 (0-3")**

Lab Sample ID: 460-156722-15

Date Sampled: 05/22/2018 1105

Client Matrix: Solid

% Moisture: 10.4

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/30/2018 1906

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4490		9.1	44.2
Antimony		4.4	U	0.53	4.4
Arsenic		2.3	J	0.82	3.3
Barium		17.9	J	3.6	44.2
Beryllium		0.20	J	0.051	0.44
Cadmium		0.65	J	0.13	0.88
Calcium		1700		113	1100
Chromium		36.3		0.61	2.2
Cobalt		6.0	J	1.3	11.0
Copper		7.3		1.2	5.5
Iron		8130		6.0	33.1
Lead		34.3		0.67	2.2
Magnesium		565	J	85.2	1100
Manganese		285		0.34	3.3
Nickel		4.3	J	0.84	8.8
Potassium		153	J	58.8	1100
Selenium		4.4	U	1.3	4.4
Silver		2.2	U	0.34	2.2
Sodium		1100	U	85.1	1100
Thallium		4.4	U	1.3	4.4
Vanadium		12.2		1.3	11.0
Zinc		49.5		0.57	6.6

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.61 g

Analysis Date: 05/31/2018 1301

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.3		0.055	0.093



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-036 (18"-24")**

Lab Sample ID: 460-156722-16

Date Sampled: 05/22/2018 1110

Client Matrix: Solid

% Moisture: 6.5

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.00 g

Analysis Date: 05/30/2018 1815

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3780		8.8	42.8
Antimony		4.3	U	0.51	4.3
Arsenic		0.83	J	0.79	3.2
Barium		5.1	J	3.5	42.8
Beryllium		0.10	J	0.049	0.43
Cadmium		0.86	U	0.13	0.86
Calcium		262	J	109	1070
Chromium		5.7		0.59	2.1
Cobalt		1.5	J	1.2	10.7
Copper		3.4	J	1.2	5.3
Iron		4720		5.8	32.1
Lead		2.7		0.65	2.1
Magnesium		210	J	82.4	1070
Manganese		38.7		0.33	3.2
Nickel		3.1	J	0.81	8.6
Potassium		1070	U	56.9	1070
Selenium		4.3	U	1.3	4.3
Silver		2.1	U	0.33	2.1
Sodium		1070	U	82.3	1070
Thallium		4.3	U	1.3	4.3
Vanadium		7.0	J	1.3	10.7
Zinc		10.4		0.55	6.4

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.65 g

Analysis Date: 05/31/2018 1303

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.079		0.0099	0.017



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-037 (0-3")**

Lab Sample ID: 460-156722-17

Date Sampled: 05/22/2018 1125

Client Matrix: Solid

% Moisture: 11.9

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523968

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523662D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/31/2018 1143

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3550		9.1	44.5
Antimony		4.5	U	0.53	4.5
Arsenic		3.8		0.82	3.3
Barium		12.1	J	3.6	44.5
Beryllium		0.14	J	0.051	0.45
Cadmium		0.89	U	0.13	0.89
Calcium		774	J	114	1110
Chromium		5.8		0.62	2.2
Cobalt		11.1	U	1.3	11.1
Copper		5.7		1.3	5.6
Iron		5790		6.0	33.4
Lead		27.6		0.67	2.2
Magnesium		364	J	85.8	1110
Manganese		113		0.35	3.3
Nickel		2.5	J	0.85	8.9
Potassium		146	J	59.2	1110
Selenium		4.5	U	1.3	4.5
Silver		2.2	U	0.34	2.2
Sodium		1110	U	85.7	1110
Thallium		4.5	U	1.3	4.5
Vanadium		12.1		1.3	11.1
Zinc		17.5		0.58	6.7

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 05/31/2018 1305

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.18		0.011	0.019



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-038 (0-3")**

Lab Sample ID: 460-156722-18

Date Sampled: 05/22/2018 1140

Client Matrix: Solid

% Moisture: 10.8

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/30/2018 1914

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4710		9.1	44.4
Antimony		4.4	U	0.53	4.4
Arsenic		1.5	J	0.82	3.3
Barium		10.7	J	3.6	44.4
Beryllium		0.15	J	0.051	0.44
Cadmium		0.89	U	0.13	0.89
Calcium		504	J	113	1110
Chromium		6.4		0.62	2.2
Cobalt		11.1	U	1.3	11.1
Copper		4.0	J	1.3	5.6
Iron		5830		6.0	33.3
Lead		13.8		0.67	2.2
Magnesium		494	J	85.6	1110
Manganese		119		0.34	3.3
Nickel		2.9	J	0.84	8.9
Potassium		105	J	59.1	1110
Selenium		4.4	U	1.3	4.4
Silver		2.2	U	0.34	2.2
Sodium		1110	U	85.5	1110
Thallium		4.4	U	1.3	4.4
Vanadium		10.8	J	1.3	11.1
Zinc		17.2		0.57	6.7

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.60 g

Analysis Date: 05/31/2018 1307

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.042		0.011	0.019



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-038 (18"-24")**

Lab Sample ID: 460-156722-19

Date Sampled: 05/22/2018 1143

Client Matrix: Solid

% Moisture: 6.7

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/30/2018 1930

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2600		8.6	42.1
Antimony		4.2	U	0.50	4.2
Arsenic		3.2	U	0.78	3.2
Barium		12.5	J	3.4	42.1
Beryllium		0.14	J	0.048	0.42
Cadmium		0.84	U	0.13	0.84
Calcium		3990		107	1050
Chromium		4.8		0.58	2.1
Cobalt		2.7	J	1.2	10.5
Copper		5.5		1.2	5.3
Iron		4450		5.7	31.5
Lead		13.1		0.63	2.1
Magnesium		1870		81.1	1050
Manganese		462		0.33	3.2
Nickel		3.7	J	0.80	8.4
Potassium		83.8	J	55.9	1050
Selenium		4.2	U	1.3	4.2
Silver		2.1	U	0.32	2.1
Sodium		1050	U	81.0	1050
Thallium		4.2	U	1.2	4.2
Vanadium		9.1	J	1.3	10.5
Zinc		16.2		0.54	6.3

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.64 g

Analysis Date: 05/31/2018 1309

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.13		0.010	0.017



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-039 (0-3")

Lab Sample ID: 460-156722-20

Client Matrix: Solid

% Moisture: 14.1

Date Sampled: 05/22/2018 1155

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/30/2018 1934

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0736

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6300		9.5	46.1
Antimony		4.6	U	0.55	4.6
Arsenic		2.6	J	0.85	3.5
Barium		18.0	J	3.7	46.1
Beryllium		0.23	J	0.053	0.46
Cadmium		0.30	J	0.14	0.92
Calcium		1340		118	1150
Chromium		31.6		0.64	2.3
Cobalt		1.4	J	1.3	11.5
Copper		5.0	J	1.3	5.8
Iron		7470		6.2	34.6
Lead		22.0		0.70	2.3
Magnesium		708	J	88.9	1150
Manganese		127		0.36	3.5
Nickel		3.9	J	0.87	9.2
Potassium		214	J	61.3	1150
Selenium		4.6	U	1.4	4.6
Silver		2.3	U	0.35	2.3
Sodium		1150	U	88.8	1150
Thallium		4.6	U	1.4	4.6
Vanadium		14.4		1.4	11.5
Zinc		30.4		0.60	6.9

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.61 g

Analysis Date: 05/31/2018 0838

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.0		0.057	0.097



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-040 (0-3")**

Lab Sample ID: 460-156722-31

Date Sampled: 05/22/2018 1245

Client Matrix: Solid

% Moisture: 11.7

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/30/2018 1937

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0739

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2230		9.2	44.8
Antimony		4.5	U	0.54	4.5
Arsenic		1.7	J	0.83	3.4
Barium		8.3	J	3.6	44.8
Beryllium		0.083	J	0.052	0.45
Cadmium		0.90	U	0.13	0.90
Calcium		319	J	114	1120
Chromium		3.9		0.62	2.2
Cobalt		11.2	U	1.3	11.2
Copper		2.9	J	1.3	5.6
Iron		4180		6.1	33.6
Lead		20.6		0.68	2.2
Magnesium		209	J	86.4	1120
Manganese		215		0.35	3.4
Nickel		1.4	J	0.85	9.0
Potassium		69.3	J	59.6	1120
Selenium		4.5	U	1.4	4.5
Silver		2.2	U	0.34	2.2
Sodium		1120	U	86.3	1120
Thallium		4.5	U	1.3	4.5
Vanadium		9.4	J	1.3	11.2
Zinc		12.4		0.58	6.7

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.60 g

Analysis Date: 05/31/2018 1355

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.037		0.011	0.019



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID:** SS-041 (0-3")

Lab Sample ID: 460-156722-32

Client Matrix: Solid

% Moisture: 16.9

Date Sampled: 05/22/2018 1315

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/30/2018 1941

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0739

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1590		9.6	46.7
Antimony		4.7	U	0.56	4.7
Arsenic		1.1	J	0.86	3.5
Barium		6.6	J	3.8	46.7
Beryllium		0.068	J	0.054	0.47
Cadmium		0.93	U	0.14	0.93
Calcium		179	J	119	1170
Chromium		4.5		0.65	2.3
Cobalt		11.7	U	1.3	11.7
Copper		3.0	J	1.3	5.8
Iron		2780		6.3	35.1
Lead		16.4		0.71	2.3
Magnesium		157	J	90.1	1170
Manganese		56.7		0.36	3.5
Nickel		1.1	J	0.89	9.3
Potassium		1170	U	62.2	1170
Selenium		4.7	U	1.4	4.7
Silver		2.3	U	0.36	2.3
Sodium		1170	U	90.0	1170
Thallium		4.7	U	1.4	4.7
Vanadium		6.5	J	1.4	11.7
Zinc		8.5		0.60	7.0

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.65 g

Analysis Date: 05/31/2018 0842

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.86		0.056	0.094



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-041 (18"-24")**

Lab Sample ID: 460-156722-33

Date Sampled: 05/22/2018 1320

Client Matrix: Solid

% Moisture: 11.3

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.00 g

Analysis Date: 05/30/2018 1945

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0739

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3450		9.2	45.1
Antimony		4.5	U	0.54	4.5
Arsenic		3.4	U	0.83	3.4
Barium		4.2	J	3.7	45.1
Beryllium		0.10	J	0.052	0.45
Cadmium		0.90	U	0.13	0.90
Calcium		1130	U	115	1130
Chromium		4.1		0.63	2.3
Cobalt		11.3	U	1.3	11.3
Copper		2.5	J	1.3	5.6
Iron		4740		6.1	33.8
Lead		2.6		0.68	2.3
Magnesium		138	J	86.9	1130
Manganese		27.6		0.35	3.4
Nickel		2.4	J	0.86	9.0
Potassium		1130	U	59.9	1130
Selenium		4.5	U	1.4	4.5
Silver		2.3	U	0.34	2.3
Sodium		1130	U	86.8	1130
Thallium		4.5	U	1.3	4.5
Vanadium		7.4	J	1.3	11.3
Zinc		9.3		0.58	6.8

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523839

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 05/31/2018 1349

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0359

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.073		0.011	0.019



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-042 (0-3")**

Lab Sample ID: 460-156722-34

Date Sampled: 05/22/2018 1330

Client Matrix: Solid

% Moisture: 11.6

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523968

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523536

Lab File ID: 523662D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/31/2018 1147

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0739

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3830		9.2	44.8
Antimony		4.5	U	0.54	4.5
Arsenic		2.1	J	0.83	3.4
Barium		27.0	J	3.6	44.8
Beryllium		0.18	J	0.052	0.45
Cadmium		0.67	J	0.13	0.90
Calcium		2000		114	1120
Chromium		42.2		0.62	2.2
Cobalt		3.4	J	1.3	11.2
Copper		6.7		1.3	5.6
Iron		5860		6.0	33.6
Lead		41.6		0.68	2.2
Magnesium		434	J	86.4	1120
Manganese		558		0.35	3.4
Nickel		4.4	J	0.85	9.0
Potassium		106	J	59.6	1120
Selenium		4.5	U	1.4	4.5
Silver		2.2	U	0.34	2.2
Sodium		1120	U	86.3	1120
Thallium		4.5	U	1.3	4.5
Vanadium		11.9		1.3	11.2
Zinc		52.6		0.58	6.7

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523847

Lab File ID: 523839HG1.CSV

Dilution: 20

Initial Weight/Volume: 0.61 g

Analysis Date: 05/31/2018 1351

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0434

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.9		0.22	0.38



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID:** SS-043 (0-3")

Lab Sample ID: 460-156722-35

Client Matrix: Solid

% Moisture: 9.0

Date Sampled: 05/22/2018 1340

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523968

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523537

Lab File ID: 523662D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/31/2018 1151

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0740

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1980		8.9	43.5
Antimony		4.4	U	0.52	4.4
Arsenic		1.7	J	0.80	3.3
Barium		4.0	J	3.5	43.5
Beryllium		0.060	J	0.050	0.44
Cadmium		0.87	U	0.13	0.87
Calcium		129	J	111	1090
Chromium		4.1		0.60	2.2
Cobalt		1.9	J	1.2	10.9
Copper		4.1	J	1.2	5.4
Iron		4340		5.9	32.6
Lead		19.9		0.66	2.2
Magnesium		95.6	J	83.9	1090
Manganese		189		0.34	3.3
Nickel		1.6	J	0.83	8.7
Potassium		1090	U	57.9	1090
Selenium		4.4	U	1.3	4.4
Silver		2.2	U	0.33	2.2
Sodium		1090	U	83.8	1090
Thallium		4.4	U	1.3	4.4
Vanadium		11.0		1.3	10.9
Zinc		8.0		0.56	6.5

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523847

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.67 g

Analysis Date: 05/31/2018 1353

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0434

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.042		0.0098	0.017



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-043 (18"-24")

Lab Sample ID: 460-156722-36

Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 05/22/2018 1345

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523537

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/30/2018 2051

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0740

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3350		8.6	42.1
Antimony		4.2	U	0.51	4.2
Arsenic		3.2	U	0.78	3.2
Barium		3.5	J	3.4	42.1
Beryllium		0.090	J	0.048	0.42
Cadmium		0.84	U	0.13	0.84
Calcium		1050	U	107	1050
Chromium		5.0		0.58	2.1
Cobalt		2.8	J	1.2	10.5
Copper		3.8	J	1.2	5.3
Iron		4750		5.7	31.6
Lead		5.1		0.64	2.1
Magnesium		113	J	81.2	1050
Manganese		169		0.33	3.2
Nickel		3.6	J	0.80	8.4
Potassium		1050	U	56.0	1050
Selenium		4.2	U	1.3	4.2
Silver		2.1	U	0.32	2.1
Sodium		1050	U	81.1	1050
Thallium		4.2	U	1.2	4.2
Vanadium		7.2	J	1.3	10.5
Zinc		10.0		0.54	6.3

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523847

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.64 g

Analysis Date: 05/31/2018 0905

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0434

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.033		0.010	0.017



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

Client Sample ID: SS-044 (0-3")

Lab Sample ID: 460-156722-37

Client Matrix: Solid

% Moisture: 11.9

Date Sampled: 05/22/2018 1355

Date Received: 05/22/2018 2100

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523537

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/30/2018 2054

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0740

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4030		9.1	44.5
Antimony		4.5	U	0.53	4.5
Arsenic		4.7		0.82	3.3
Barium		17.4	J	3.6	44.5
Beryllium		0.19	J	0.051	0.45
Cadmium		0.15	J	0.13	0.89
Calcium		1160		114	1110
Chromium		13.6		0.62	2.2
Cobalt		1.8	J	1.3	11.1
Copper		9.8		1.3	5.6
Iron		6090		6.0	33.4
Lead		27.3		0.67	2.2
Magnesium		752	J	85.8	1110
Manganese		166		0.35	3.3
Nickel		4.1	J	0.84	8.9
Potassium		198	J	59.2	1110
Selenium		4.5	U	1.3	4.5
Silver		2.2	U	0.34	2.2
Sodium		1110	U	85.7	1110
Thallium		4.5	U	1.3	4.5
Vanadium		11.0	J	1.3	11.1
Zinc		38.9		0.58	6.7

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523847

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 05/31/2018 0907

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0434

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.56		0.011	0.018



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-045 (0-3")**

Lab Sample ID: 460-156722-38

Date Sampled: 05/22/2018 1410

Client Matrix: Solid

% Moisture: 19.7

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523537

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/30/2018 2110

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0740

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		2010		9.9	48.3
Antimony		4.8	U	0.58	4.8
Arsenic		1.1	J	0.89	3.6
Barium		11.4	J	3.9	48.3
Beryllium		0.096	J	0.056	0.48
Cadmium		0.97	U	0.14	0.97
Calcium		360	J	123	1210
Chromium		4.6		0.67	2.4
Cobalt		12.1	U	1.4	12.1
Copper		5.8	J	1.4	6.0
Iron		4590		6.5	36.3
Lead		44.2		0.73	2.4
Magnesium		192	J	93.2	1210
Manganese		42.1		0.37	3.6
Nickel		3.2	J	0.92	9.7
Potassium		110	J	64.3	1210
Selenium		4.8	U	1.5	4.8
Silver		2.4	U	0.37	2.4
Sodium		1210	U	93.1	1210
Thallium		4.8	U	1.4	4.8
Vanadium		13.9		1.4	12.1
Zinc		20.2		0.62	7.3

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523847

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.60 g

Analysis Date: 05/31/2018 0909

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0434

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.078		0.012	0.021



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-007 (18"-24")**

Lab Sample ID: 460-156722-39

Date Sampled: 05/22/2018 1500

Client Matrix: Solid

% Moisture: 11.6

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523537

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.03 g

Analysis Date: 05/30/2018 2114

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0740

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5800		9.0	43.9
Antimony		4.4	U	0.53	4.4
Arsenic		2.0	J	0.81	3.3
Barium		8.5	J	3.6	43.9
Beryllium		0.19	J	0.051	0.44
Cadmium		0.88	U	0.13	0.88
Calcium		731	J	112	1100
Chromium		9.1		0.61	2.2
Cobalt		11.0	U	1.3	11.0
Copper		2.9	J	1.2	5.5
Iron		8720		5.9	32.9
Lead		5.7		0.66	2.2
Magnesium		404	J	84.7	1100
Manganese		39.2		0.34	3.3
Nickel		2.3	J	0.83	8.8
Potassium		119	J	58.4	1100
Selenium		4.4	U	1.3	4.4
Silver		2.2	U	0.33	2.2
Sodium		1100	U	84.5	1100
Thallium		4.4	U	1.3	4.4
Vanadium		14.1		1.3	11.0
Zinc		8.0		0.57	6.6

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523847

Lab File ID: 523839HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.65 g

Analysis Date: 05/31/2018 0911

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0434

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.31		0.010	0.018



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: Dup-003**

Lab Sample ID: 460-156722-40

Date Sampled: 05/22/2018 0000

Client Matrix: Solid

% Moisture: 17.0

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523537

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.02 g

Analysis Date: 05/30/2018 2118

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0740

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		1900		9.7	47.2
Antimony		4.7	U	0.57	4.7
Arsenic		6.1		0.87	3.5
Barium		14.3	J	3.8	47.2
Beryllium		0.13	J	0.054	0.47
Cadmium		6.3		0.14	0.94
Calcium		2240		120	1180
Chromium		26.6		0.66	2.4
Cobalt		1.5	J	1.3	11.8
Copper		14.6		1.3	5.9
Iron		4190		6.4	35.4
Lead		10.6		0.71	2.4
Magnesium		1160	J	91.0	1180
Manganese		234		0.37	3.5
Nickel		4.0	J	0.90	9.4
Potassium		171	J	62.8	1180
Selenium		4.7	U	1.4	4.7
Silver		2.4	U	0.36	2.4
Sodium		1180	U	90.9	1180
Thallium		4.7	U	1.4	4.7
Vanadium		7.2	J	1.4	11.8
Zinc		60.8		0.61	7.1

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523847

Lab File ID: 523839HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.64 g

Analysis Date: 05/31/2018 1331

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0434

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.2		0.056	0.096



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: Dup-004**

Lab Sample ID: 460-156722-41

Date Sampled: 05/22/2018 0000

Client Matrix: Solid

% Moisture: 12.8

Date Received: 05/22/2018 2100

**6010C Metals (ICP)**

Analysis Method: 6010C

Analysis Batch: 460-523625

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-523537

Lab File ID: 523534D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.01 g

Analysis Date: 05/30/2018 2122

Final Weight/Volume: 50 mL

Prep Date: 05/30/2018 0740

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4160		9.3	45.4
Antimony		4.5	U	0.55	4.5
Arsenic		2.4	J	0.84	3.4
Barium		18.3	J	3.7	45.4
Beryllium		0.18	J	0.052	0.45
Cadmium		0.71	J	0.14	0.91
Calcium		2030		116	1140
Chromium		45.0		0.63	2.3
Cobalt		4.2	J	1.3	11.4
Copper		6.9		1.3	5.7
Iron		6570		6.1	34.1
Lead		40.1		0.69	2.3
Magnesium		584	J	87.6	1140
Manganese		257		0.35	3.4
Nickel		3.9	J	0.86	9.1
Potassium		139	J	60.4	1140
Selenium		4.5	U	1.4	4.5
Silver		2.3	U	0.35	2.3
Sodium		1140	U	87.5	1140
Thallium		4.5	U	1.3	4.5
Vanadium		11.4		1.4	11.4
Zinc		53.7		0.59	6.8

**7471B Mercury (CVAA)**

Analysis Method: 7471B

Analysis Batch: 460-524001

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-523847

Lab File ID: 523839HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.67 g

Analysis Date: 05/31/2018 1333

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0434

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.2		0.051	0.087



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-025 (18"-24")**

Lab Sample ID: 460-156722-42

Date Sampled: 05/22/2018 0800

Client Matrix: Solid

% Moisture: 22.9

Date Received: 05/22/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 40

Initial Weight/Volume: 0.63 g

Analysis Date: 06/04/2018 1139

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		15.7		0.49	0.84



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-026 (18"-24")**

Lab Sample ID: 460-156722-43

Date Sampled: 05/22/2018 0825

Client Matrix: Solid

% Moisture: 21.4

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.35 g

Analysis Date: 06/06/2018 2002

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		1.2		0.11	0.75
Chromium		13.5		0.52	1.9

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 40

Initial Weight/Volume: 0.61 g

Analysis Date: 06/04/2018 1141

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		13.4		0.50	0.85



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-028 (18"-24")**

Lab Sample ID: 460-156722-44

Date Sampled: 05/22/2018 0900

Client Matrix: Solid

% Moisture: 5.2

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.29 g

Analysis Date: 06/06/2018 2006

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.11	J	0.097	0.65
Chromium		3.6		0.45	1.6

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 06/04/2018 1143

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.28		0.010	0.017

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-033 (18"-24")**

Lab Sample ID: 460-156722-48

Date Sampled: 05/22/2018 1020

Client Matrix: Solid

% Moisture: 18.2

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.30 g

Analysis Date: 06/06/2018 2010

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		6.4		0.52	1.9

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.64 g

Analysis Date: 06/04/2018 1008

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.046		0.011	0.019

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-035 (18"-24")**

Lab Sample ID: 460-156722-49

Date Sampled: 05/22/2018 1055

Client Matrix: Solid

% Moisture: 8.6

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.21 g

Analysis Date: 06/06/2018 2014

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		11.1		0.50	1.8

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 06/04/2018 1015

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.52		0.011	0.018

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-039 (18"-24")**

Lab Sample ID: 460-156722-51

Date Sampled: 05/22/2018 1200

Client Matrix: Solid

% Moisture: 18.7

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.38 g

Analysis Date: 06/06/2018 2018

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		18.3		0.49	1.8

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.66 g

Analysis Date: 06/04/2018 1016

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.21		0.011	0.019

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-042 (18"-24")**

Lab Sample ID: 460-156722-53

Date Sampled: 05/22/2018 1335

Client Matrix: Solid

% Moisture: 5.1

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.33 g

Analysis Date: 06/06/2018 1652

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		11.3	F1	0.44	1.6

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.62 g

Analysis Date: 06/04/2018 1019

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.66		0.010	0.017

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-044 (18"-24")**

Lab Sample ID: 460-156722-54

Date Sampled: 05/22/2018 1400

Client Matrix: Solid

% Moisture: 7.0

Date Received: 05/22/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 06/04/2018 1021

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.090		0.010	0.017



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-001 (18"-24")**

Lab Sample ID: 460-156722-56

Date Sampled: 05/22/2018 1415

Client Matrix: Solid

% Moisture: 19.8

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.38 g

Analysis Date: 06/06/2018 2022

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.83		0.11	0.72
Chromium		12.0		0.50	1.8

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 10

Initial Weight/Volume: 0.64 g

Analysis Date: 06/04/2018 1145

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		4.9		0.12	0.20



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-002 (18"-24")**

Lab Sample ID: 460-156722-57

Date Sampled: 05/22/2018 1435

Client Matrix: Solid

% Moisture: 12.0

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.30 g

Analysis Date: 06/06/2018 2026

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		10.9		0.48	1.7

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.60 g

Analysis Date: 06/04/2018 1148

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.087		0.011	0.019



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-005 (18"-24")**

Lab Sample ID: 460-156722-59

Date Sampled: 05/22/2018 1450

Client Matrix: Solid

% Moisture: 13.6

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.31 g

Analysis Date: 06/06/2018 2041

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		12.9		0.49	1.8

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524830

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 06/04/2018 1028

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0509

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.44		0.011	0.019

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-006 (18"-24")**

Lab Sample ID: 460-156722-60

Date Sampled: 05/22/2018 1455

Client Matrix: Solid

% Moisture: 17.2

Date Received: 05/22/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524835

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.62 g

Analysis Date: 06/04/2018 1053

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0548

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.25		0.012	0.020



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-008 (18"-24")**

Lab Sample ID: 460-156722-61

Date Sampled: 05/22/2018 1505

Client Matrix: Solid

% Moisture: 11.2

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.32 g

Analysis Date: 06/06/2018 2045

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		11.9		0.47	1.7

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524835

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 06/04/2018 1055

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0548

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.089		0.011	0.019

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-009 (18"-24")**

Lab Sample ID: 460-156722-62

Date Sampled: 05/22/2018 1510

Client Matrix: Solid

% Moisture: 10.1

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.38 g

Analysis Date: 06/06/2018 2049

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Chromium		8.8		0.45	1.6

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524835

Lab File ID: 524808HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.64 g

Analysis Date: 06/04/2018 1057

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0548

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.16		0.010	0.018

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Client Sample ID: SS-010 (18"-24")**

Lab Sample ID: 460-156722-63

Date Sampled: 05/22/2018 1515

Client Matrix: Solid

% Moisture: 10.9

Date Received: 05/22/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-525595

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-524795

Lab File ID: 525552D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.23 g

Analysis Date: 06/06/2018 2052

Final Weight/Volume: 50 mL

Prep Date: 06/03/2018 1940

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.33	J	0.11	0.73
Chromium		10		0.51	1.8

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-524920

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-524835

Lab File ID: 524808HG1.CSV

Dilution: 10

Initial Weight/Volume: 0.62 g

Analysis Date: 06/04/2018 1154

Final Weight/Volume: 50 mL

Prep Date: 06/04/2018 0548

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		6.1		0.11	0.18



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-025 (0-3")

**Lab Sample ID:** 460-156722-1

**Client Matrix:** Solid

**Date Sampled:** 05/22/2018 0755

**Date Received:** 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	32.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522172	Analysis Date: 05/24/2018	1128				DryWt Corrected: N
Percent Solids	68.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522172	Analysis Date: 05/24/2018	1128				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-026 (0-3")

Lab Sample ID: 460-156722-2

Client Matrix: Solid

Date Sampled: 05/22/2018 0820

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	30.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522172	Analysis Date: 05/24/2018	1128				DryWt Corrected: N
Percent Solids	69.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522172	Analysis Date: 05/24/2018	1128				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-027 (0-3")

Lab Sample ID: 460-156722-3

Client Matrix: Solid

Date Sampled: 05/22/2018 0840

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	28.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522172	Analysis Date: 05/24/2018	1128				DryWt Corrected: N
Percent Solids	71.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522172	Analysis Date: 05/24/2018	1128				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-027 (18"-24")

Lab Sample ID: 460-156722-4

Client Matrix: Solid

Date Sampled: 05/22/2018 0845

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	30.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522172	Analysis Date: 05/24/2018	1128				DryWt Corrected: N
Percent Solids	69.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522172	Analysis Date: 05/24/2018	1128				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-028 (0-3")

Lab Sample ID: 460-156722-5

Client Matrix: Solid

Date Sampled: 05/22/2018 0855

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522172	Analysis Date: 05/24/2018	1128				DryWt Corrected: N
Percent Solids	85.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522172	Analysis Date: 05/24/2018	1128				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-029 (0-3")

Lab Sample ID: 460-156722-6

Client Matrix: Solid

Date Sampled: 05/22/2018 0910

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522180	Analysis Date: 05/24/2018	1144				DryWt Corrected: N
Percent Solids	84.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522180	Analysis Date: 05/24/2018	1144				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-030 (0-3")

Lab Sample ID: 460-156722-7

Client Matrix: Solid

Date Sampled: 05/22/2018 0925

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	22.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522180	Analysis Date: 05/24/2018	1144				DryWt Corrected: N
Percent Solids	77.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522180	Analysis Date: 05/24/2018	1144				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-031 (0-3")

**Lab Sample ID:** 460-156722-8

**Client Matrix:** Solid

**Date Sampled:** 05/22/2018 0935

**Date Received:** 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	38.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522180	Analysis Date: 05/24/2018	1144				DryWt Corrected: N
Percent Solids	61.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522180	Analysis Date: 05/24/2018	1144				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-031 (18"-24")

Lab Sample ID: 460-156722-9

Client Matrix: Solid

Date Sampled: 05/22/2018 0940

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522180	Analysis Date: 05/24/2018	1144				DryWt Corrected: N
Percent Solids	83.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522180	Analysis Date: 05/24/2018	1144				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-032 (0-3")

Lab Sample ID: 460-156722-10

Client Matrix: Solid

Date Sampled: 05/22/2018 1000

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	25.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522180	Analysis Date: 05/24/2018	1144				DryWt Corrected: N
Percent Solids	75.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522180	Analysis Date: 05/24/2018	1144				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-033 (0-3")

Lab Sample ID: 460-156722-11

Client Matrix: Solid

Date Sampled: 05/22/2018 1015

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	22.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522536	Analysis Date: 05/25/2018	1133				DryWt Corrected: N
Percent Solids	77.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522536	Analysis Date: 05/25/2018	1133				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-034 (0-3")

Lab Sample ID: 460-156722-12

Client Matrix: Solid

Date Sampled: 05/22/2018 1035

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522536	Analysis Date: 05/25/2018	1133				DryWt Corrected: N
Percent Solids	83.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522536	Analysis Date: 05/25/2018	1133				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-034 (18"-24")

Lab Sample ID: 460-156722-13

Client Matrix: Solid

Date Sampled: 05/22/2018 1040

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522536	Analysis Date: 05/25/2018	1133				DryWt Corrected: N
Percent Solids	87.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522536	Analysis Date: 05/25/2018	1133				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-035 (0-3")

Lab Sample ID: 460-156722-14

Client Matrix: Solid

Date Sampled: 05/22/2018 1050

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522536	Analysis Date: 05/25/2018	1133				DryWt Corrected: N
Percent Solids	79.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522536	Analysis Date: 05/25/2018	1133				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-036 (0-3")

Lab Sample ID: 460-156722-15

Client Matrix: Solid

Date Sampled: 05/22/2018 1105

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	10.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522536	Analysis Date: 05/25/2018	1133				DryWt Corrected: N
Percent Solids	89.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522536	Analysis Date: 05/25/2018	1133				DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-036 (18"-24")

Lab Sample ID: 460-156722-16

Client Matrix: Solid

Date Sampled: 05/22/2018 1110

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					
		DryWt Corrected: N					
Percent Solids	93.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					
		DryWt Corrected: N					



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-037 (0-3")

Lab Sample ID: 460-156722-17

Client Matrix: Solid

Date Sampled: 05/22/2018 1125

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	11.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N
Percent Solids	88.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-038 (0-3")

Lab Sample ID: 460-156722-18

Client Matrix: Solid

Date Sampled: 05/22/2018 1140

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	10.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N
Percent Solids	89.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-038 (18"-24")

Lab Sample ID: 460-156722-19

Client Matrix: Solid

Date Sampled: 05/22/2018 1143

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N
Percent Solids	93.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-039 (0-3")

Lab Sample ID: 460-156722-20

Client Matrix: Solid

Date Sampled: 05/22/2018 1155

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N
Percent Solids	85.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-040 (0-3")

Lab Sample ID: 460-156722-31

Client Matrix: Solid

Date Sampled: 05/22/2018 1245

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	11.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N
Percent Solids	88.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-041 (0-3")

Lab Sample ID: 460-156722-32

Client Matrix: Solid

Date Sampled: 05/22/2018 1315

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N
Percent Solids	83.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-041 (18"-24")

Lab Sample ID: 460-156722-33

Client Matrix: Solid

Date Sampled: 05/22/2018 1320

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	11.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N
Percent Solids	88.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-042 (0-3")

Lab Sample ID: 460-156722-34

Client Matrix: Solid

Date Sampled: 05/22/2018 1330

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	11.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N
Percent Solids	88.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-043 (0-3")

Lab Sample ID: 460-156722-35

Client Matrix: Solid

Date Sampled: 05/22/2018 1340

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N
Percent Solids	91.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-043 (18"-24")

Lab Sample ID: 460-156722-36

Client Matrix: Solid

Date Sampled: 05/22/2018 1345

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N
Percent Solids	94.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522486	Analysis Date: 05/25/2018 0816					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-044 (0-3")

Lab Sample ID: 460-156722-37

Client Matrix: Solid

Date Sampled: 05/22/2018 1355

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	11.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522511	Analysis Date: 05/25/2018 0919					DryWt Corrected: N
Percent Solids	88.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522511	Analysis Date: 05/25/2018 0919					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-045 (0-3")

Lab Sample ID: 460-156722-38

Client Matrix: Solid

Date Sampled: 05/22/2018 1410

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522518	Analysis Date: 05/25/2018 0942					DryWt Corrected: N
Percent Solids	80.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522518	Analysis Date: 05/25/2018 0942					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-007 (18"-24")

Lab Sample ID: 460-156722-39

Client Matrix: Solid

Date Sampled: 05/22/2018 1500

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	11.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522518	Analysis Date: 05/25/2018 0942					DryWt Corrected: N
Percent Solids	88.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522518	Analysis Date: 05/25/2018 0942					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** Dup-003

Lab Sample ID: 460-156722-40

Client Matrix: Solid

Date Sampled: 05/22/2018 0000

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522518	Analysis Date: 05/25/2018 0942					DryWt Corrected: N
Percent Solids	83.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522518	Analysis Date: 05/25/2018 0942					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** Dup-004

Lab Sample ID: 460-156722-41

Client Matrix: Solid

Date Sampled: 05/22/2018 0000

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522518	Analysis Date: 05/25/2018 0942					DryWt Corrected: N
Percent Solids	87.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-522518	Analysis Date: 05/25/2018 0942					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-025 (18"-24")

Lab Sample ID: 460-156722-42

Client Matrix: Solid

Date Sampled: 05/22/2018 0800

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	22.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	77.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-026 (18"-24")

Lab Sample ID: 460-156722-43

Client Matrix: Solid

Date Sampled: 05/22/2018 0825

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	21.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	78.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-028 (18"-24")

Lab Sample ID: 460-156722-44

Client Matrix: Solid

Date Sampled: 05/22/2018 0900

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	94.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-033 (18"-24")

Lab Sample ID: 460-156722-48

Client Matrix: Solid

Date Sampled: 05/22/2018 1020

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	81.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-035 (18"-24")

Lab Sample ID: 460-156722-49

Client Matrix: Solid

Date Sampled: 05/22/2018 1055

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	91.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-039 (18"-24")

Lab Sample ID: 460-156722-51

Client Matrix: Solid

Date Sampled: 05/22/2018 1200

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	81.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-042 (18"-24")

Lab Sample ID: 460-156722-53

Client Matrix: Solid

Date Sampled: 05/22/2018 1335

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	94.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-044 (18"-24")

Lab Sample ID: 460-156722-54

Client Matrix: Solid

Date Sampled: 05/22/2018 1400

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	93.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-001 (18"-24")

Lab Sample ID: 460-156722-56

Client Matrix: Solid

Date Sampled: 05/22/2018 1415

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					
		DryWt Corrected: N					
Percent Solids	80.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					
		DryWt Corrected: N					



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-002 (18"-24")

**Lab Sample ID:** 460-156722-57

**Client Matrix:** Solid

**Date Sampled:** 05/22/2018 1435

**Date Received:** 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	88.0		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-005 (18"-24")

Lab Sample ID: 460-156722-59

Client Matrix: Solid

Date Sampled: 05/22/2018 1450

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.6		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	86.4		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-006 (18"-24")

Lab Sample ID: 460-156722-60

Client Matrix: Solid

Date Sampled: 05/22/2018 1455

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	82.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-008 (18"-24")

Lab Sample ID: 460-156722-61

Client Matrix: Solid

Date Sampled: 05/22/2018 1505

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	11.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	88.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-009 (18"-24")

Lab Sample ID: 460-156722-62

Client Matrix: Solid

Date Sampled: 05/22/2018 1510

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	10.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	89.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156722-1

---

### General Chemistry

**Client Sample ID:** SS-010 (18"-24")

Lab Sample ID: 460-156722-63

Client Matrix: Solid

Date Sampled: 05/22/2018 1515

Date Received: 05/22/2018 2100

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	10.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N
Percent Solids	89.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-525530	Analysis Date: 06/06/2018 0908					DryWt Corrected: N



## DATA REPORTING QUALIFIERS

Client: PW Grosser Consulting

Job Number: 460-156722-1

Lab Section	Qualifier	Description
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	F2	MS/MSD RPD exceeds control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
Metals		
	F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
	F3	Duplicate RPD exceeds the control limit
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



# QUALITY CONTROL RESULTS



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-522380</b>					
LCS 460-522380/2-A	Lab Control Sample	T	Solid	8151A	
MB 460-522380/1-A	Method Blank	T	Solid	8151A	
460-156504-A-2-B MS	Matrix Spike	T	Solid	8151A	
460-156504-A-2-C MSD	Matrix Spike Duplicate	T	Solid	8151A	
460-156722-1	SS-025 (0-3")	T	Solid	8151A	
460-156722-2	SS-026 (0-3")	T	Solid	8151A	
460-156722-3	SS-027 (0-3")	T	Solid	8151A	
460-156722-4	SS-027 (18"-24")	T	Solid	8151A	
460-156722-5	SS-028 (0-3")	T	Solid	8151A	
460-156722-6	SS-029 (0-3")	T	Solid	8151A	
460-156722-7	SS-030 (0-3")	T	Solid	8151A	
460-156722-8	SS-031 (0-3")	T	Solid	8151A	
460-156722-9	SS-031 (18"-24")	T	Solid	8151A	
460-156722-10	SS-032 (0-3")	T	Solid	8151A	
460-156722-11	SS-033 (0-3")	T	Solid	8151A	
460-156722-12	SS-034 (0-3")	T	Solid	8151A	
460-156722-13	SS-034 (18"-24")	T	Solid	8151A	
460-156722-14	SS-035 (0-3")	T	Solid	8151A	
460-156722-15	SS-036 (0-3")	T	Solid	8151A	
<b>Analysis Batch:460-522539</b>					
LCS 460-522380/2-A	Lab Control Sample	T	Solid	8151A	460-522380
MB 460-522380/1-A	Method Blank	T	Solid	8151A	460-522380
460-156504-A-2-B MS	Matrix Spike	T	Solid	8151A	460-522380
460-156504-A-2-C MSD	Matrix Spike Duplicate	T	Solid	8151A	460-522380
460-156722-1	SS-025 (0-3")	T	Solid	8151A	460-522380
460-156722-2	SS-026 (0-3")	T	Solid	8151A	460-522380
460-156722-3	SS-027 (0-3")	T	Solid	8151A	460-522380
460-156722-4	SS-027 (18"-24")	T	Solid	8151A	460-522380
460-156722-5	SS-028 (0-3")	T	Solid	8151A	460-522380
460-156722-6	SS-029 (0-3")	T	Solid	8151A	460-522380
460-156722-7	SS-030 (0-3")	T	Solid	8151A	460-522380
460-156722-8	SS-031 (0-3")	T	Solid	8151A	460-522380
460-156722-9	SS-031 (18"-24")	T	Solid	8151A	460-522380
460-156722-10	SS-032 (0-3")	T	Solid	8151A	460-522380
460-156722-11	SS-033 (0-3")	T	Solid	8151A	460-522380
460-156722-12	SS-034 (0-3")	T	Solid	8151A	460-522380
460-156722-13	SS-034 (18"-24")	T	Solid	8151A	460-522380
460-156722-14	SS-035 (0-3")	T	Solid	8151A	460-522380
460-156722-15	SS-036 (0-3")	T	Solid	8151A	460-522380



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-522576</b>					
LCS 460-522576/2-A	Lab Control Sample	T	Solid	3546	
MB 460-522576/1-A	Method Blank	T	Solid	3546	
460-156722-1	SS-025 (0-3")	T	Solid	3546	
460-156722-1MS	Matrix Spike	T	Solid	3546	
460-156722-1MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156722-2DL	SS-026 (0-3")	T	Solid	3546	
460-156722-3	SS-027 (0-3")	T	Solid	3546	
460-156722-4	SS-027 (18"-24")	T	Solid	3546	
460-156722-5DL	SS-028 (0-3")	T	Solid	3546	
460-156722-6	SS-029 (0-3")	T	Solid	3546	
460-156722-7	SS-030 (0-3")	T	Solid	3546	
460-156722-8	SS-031 (0-3")	T	Solid	3546	
460-156722-9	SS-031 (18"-24")	T	Solid	3546	
460-156722-10	SS-032 (0-3")	T	Solid	3546	
460-156722-11	SS-033 (0-3")	T	Solid	3546	
460-156722-12DL	SS-034 (0-3")	T	Solid	3546	
460-156722-13	SS-034 (18"-24")	T	Solid	3546	
460-156722-14DL	SS-035 (0-3")	T	Solid	3546	
460-156722-15	SS-036 (0-3")	T	Solid	3546	
460-156722-16	SS-036 (18"-24")	T	Solid	3546	
460-156722-17	SS-037 (0-3")	T	Solid	3546	
460-156722-18	SS-038 (0-3")	T	Solid	3546	
460-156722-19	SS-038 (18"-24")	T	Solid	3546	
460-156722-20DL	SS-039 (0-3")	T	Solid	3546	
<b>Prep Batch: 460-522752</b>					
LCS 460-522752/2-A	Lab Control Sample	T	Solid	8151A	
MB 460-522752/1-A	Method Blank	T	Solid	8151A	
460-156722-16	SS-036 (18"-24")	T	Solid	8151A	
460-156722-17	SS-037 (0-3")	T	Solid	8151A	
460-156722-18	SS-038 (0-3")	T	Solid	8151A	
460-156722-19	SS-038 (18"-24")	T	Solid	8151A	
460-156722-20	SS-039 (0-3")	T	Solid	8151A	
460-156722-31	SS-040 (0-3")	T	Solid	8151A	
460-156722-32	SS-041 (0-3")	T	Solid	8151A	
460-156722-33	SS-041 (18"-24")	T	Solid	8151A	
460-156722-34	SS-042 (0-3")	T	Solid	8151A	
460-156722-35	SS-043 (0-3")	T	Solid	8151A	
460-156722-36	SS-043 (18"-24")	T	Solid	8151A	
460-156722-37	SS-044 (0-3")	T	Solid	8151A	
460-156722-38	SS-045 (0-3")	T	Solid	8151A	
460-156722-39	SS-007 (18"-24")	T	Solid	8151A	
460-156722-40	Dup-003	T	Solid	8151A	
460-156722-41	Dup-004	T	Solid	8151A	

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-523075</b>					
LCS 460-523075/2-A	Lab Control Sample	T	Solid	3546	
MB 460-523075/1-A	Method Blank	T	Solid	3546	
460-156656-C-4-A MS	Matrix Spike	T	Solid	3546	
460-156656-C-4-B MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156722-31	SS-040 (0-3")	T	Solid	3546	
460-156722-32	SS-041 (0-3")	T	Solid	3546	
460-156722-33	SS-041 (18"-24")	T	Solid	3546	
460-156722-34	SS-042 (0-3")	T	Solid	3546	
460-156722-35	SS-043 (0-3")	T	Solid	3546	
460-156722-36	SS-043 (18"-24")	T	Solid	3546	
460-156722-37	SS-044 (0-3")	T	Solid	3546	
460-156722-38	SS-045 (0-3")	T	Solid	3546	
460-156722-39	SS-007 (18"-24")	T	Solid	3546	
460-156722-40DL	Dup-003	T	Solid	3546	
460-156722-41	Dup-004	T	Solid	3546	
<b>Analysis Batch:460-523232</b>					
LCS 460-522752/2-A	Lab Control Sample	T	Solid	8151A	460-522752
MB 460-522752/1-A	Method Blank	T	Solid	8151A	460-522752
460-156722-16	SS-036 (18"-24")	T	Solid	8151A	460-522752
460-156722-17	SS-037 (0-3")	T	Solid	8151A	460-522752
460-156722-18	SS-038 (0-3")	T	Solid	8151A	460-522752
460-156722-19	SS-038 (18"-24")	T	Solid	8151A	460-522752
460-156722-20	SS-039 (0-3")	T	Solid	8151A	460-522752
460-156722-31	SS-040 (0-3")	T	Solid	8151A	460-522752
460-156722-32	SS-041 (0-3")	T	Solid	8151A	460-522752
460-156722-33	SS-041 (18"-24")	T	Solid	8151A	460-522752
460-156722-34	SS-042 (0-3")	T	Solid	8151A	460-522752
460-156722-35	SS-043 (0-3")	T	Solid	8151A	460-522752
460-156722-36	SS-043 (18"-24")	T	Solid	8151A	460-522752
460-156722-37	SS-044 (0-3")	T	Solid	8151A	460-522752
460-156722-38	SS-045 (0-3")	T	Solid	8151A	460-522752
460-156722-39	SS-007 (18"-24")	T	Solid	8151A	460-522752
460-156722-40	Dup-003	T	Solid	8151A	460-522752
460-156722-41	Dup-004	T	Solid	8151A	460-522752



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:460-523330</b>					
LCS 460-522576/2-A	Lab Control Sample	T	Solid	8081B	460-522576
MB 460-522576/1-A	Method Blank	T	Solid	8081B	460-522576
460-156722-1	SS-025 (0-3")	T	Solid	8081B	460-522576
460-156722-1MS	Matrix Spike	T	Solid	8081B	460-522576
460-156722-1MSD	Matrix Spike Duplicate	T	Solid	8081B	460-522576
460-156722-3	SS-027 (0-3")	T	Solid	8081B	460-522576
460-156722-4	SS-027 (18"-24")	T	Solid	8081B	460-522576
460-156722-6	SS-029 (0-3")	T	Solid	8081B	460-522576
460-156722-7	SS-030 (0-3")	T	Solid	8081B	460-522576
460-156722-8	SS-031 (0-3")	T	Solid	8081B	460-522576
460-156722-9	SS-031 (18"-24")	T	Solid	8081B	460-522576
460-156722-10	SS-032 (0-3")	T	Solid	8081B	460-522576
460-156722-11	SS-033 (0-3")	T	Solid	8081B	460-522576
460-156722-13	SS-034 (18"-24")	T	Solid	8081B	460-522576
460-156722-15	SS-036 (0-3")	T	Solid	8081B	460-522576
460-156722-16	SS-036 (18"-24")	T	Solid	8081B	460-522576
460-156722-17	SS-037 (0-3")	T	Solid	8081B	460-522576
460-156722-18	SS-038 (0-3")	T	Solid	8081B	460-522576
460-156722-19	SS-038 (18"-24")	T	Solid	8081B	460-522576
<b>Analysis Batch:460-523371</b>					
LCS 460-523075/2-A	Lab Control Sample	T	Solid	8081B	460-523075
MB 460-523075/1-A	Method Blank	T	Solid	8081B	460-523075
460-156722-31	SS-040 (0-3")	T	Solid	8081B	460-523075
460-156722-32	SS-041 (0-3")	T	Solid	8081B	460-523075
460-156722-33	SS-041 (18"-24")	T	Solid	8081B	460-523075
460-156722-34	SS-042 (0-3")	T	Solid	8081B	460-523075
460-156722-35	SS-043 (0-3")	T	Solid	8081B	460-523075
460-156722-36	SS-043 (18"-24")	T	Solid	8081B	460-523075
460-156722-37	SS-044 (0-3")	T	Solid	8081B	460-523075
460-156722-38	SS-045 (0-3")	T	Solid	8081B	460-523075
460-156722-39	SS-007 (18"-24")	T	Solid	8081B	460-523075
460-156722-41	Dup-004	T	Solid	8081B	460-523075
<b>Analysis Batch:460-523572</b>					
460-156656-C-4-A MS	Matrix Spike	T	Solid	8081B	460-523075
460-156656-C-4-B MSD	Matrix Spike Duplicate	T	Solid	8081B	460-523075
460-156722-2DL	SS-026 (0-3")	T	Solid	8081B	460-522576
460-156722-5DL	SS-028 (0-3")	T	Solid	8081B	460-522576
460-156722-12DL	SS-034 (0-3")	T	Solid	8081B	460-522576
460-156722-14DL	SS-035 (0-3")	T	Solid	8081B	460-522576
460-156722-20DL	SS-039 (0-3")	T	Solid	8081B	460-522576
460-156722-40DL	Dup-003	T	Solid	8081B	460-523075

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-524559</b>					
LCS 460-524559/2-A	Lab Control Sample	T	Solid	3546	
MB 460-524559/1-A	Method Blank	T	Solid	3546	
460-156722-42	SS-025 (18"-24")	T	Solid	3546	
460-156722-42MS	Matrix Spike	T	Solid	3546	
460-156722-42MSD	Matrix Spike Duplicate	T	Solid	3546	
460-156722-43	SS-026 (18"-24")	T	Solid	3546	
460-156722-44	SS-028 (18"-24")	T	Solid	3546	
460-156722-48	SS-033 (18"-24")	T	Solid	3546	
460-156722-49	SS-035 (18"-24")	T	Solid	3546	
460-156722-51	SS-039 (18"-24")	T	Solid	3546	
460-156722-53	SS-042 (18"-24")	T	Solid	3546	
460-156722-54	SS-044 (18"-24")	T	Solid	3546	
460-156722-56	SS-001 (18"-24")	T	Solid	3546	
460-156722-57	SS-002 (18"-24")	T	Solid	3546	
460-156722-59	SS-005 (18"-24")	T	Solid	3546	
460-156722-60	SS-006 (18"-24")	T	Solid	3546	
460-156722-61	SS-008 (18"-24")	T	Solid	3546	
460-156722-62	SS-009 (18"-24")	T	Solid	3546	
460-156722-63	SS-010 (18"-24")	T	Solid	3546	
<b>Analysis Batch:460-524991</b>					
LCS 460-524559/2-A	Lab Control Sample	T	Solid	8081B	460-524559
MB 460-524559/1-A	Method Blank	T	Solid	8081B	460-524559
460-156722-44	SS-028 (18"-24")	T	Solid	8081B	460-524559
460-156722-48	SS-033 (18"-24")	T	Solid	8081B	460-524559
460-156722-49	SS-035 (18"-24")	T	Solid	8081B	460-524559
460-156722-51	SS-039 (18"-24")	T	Solid	8081B	460-524559
460-156722-53	SS-042 (18"-24")	T	Solid	8081B	460-524559
460-156722-54	SS-044 (18"-24")	T	Solid	8081B	460-524559
460-156722-56	SS-001 (18"-24")	T	Solid	8081B	460-524559
460-156722-57	SS-002 (18"-24")	T	Solid	8081B	460-524559
460-156722-59	SS-005 (18"-24")	T	Solid	8081B	460-524559
460-156722-60	SS-006 (18"-24")	T	Solid	8081B	460-524559
460-156722-61	SS-008 (18"-24")	T	Solid	8081B	460-524559
460-156722-62	SS-009 (18"-24")	T	Solid	8081B	460-524559
<b>Analysis Batch:460-525493</b>					
460-156722-42	SS-025 (18"-24")	T	Solid	8081B	460-524559
460-156722-42MS	Matrix Spike	T	Solid	8081B	460-524559
460-156722-42MSD	Matrix Spike Duplicate	T	Solid	8081B	460-524559
460-156722-43	SS-026 (18"-24")	T	Solid	8081B	460-524559
460-156722-63	SS-010 (18"-24")	T	Solid	8081B	460-524559

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
---------------	------------------	--------------	---------------	--------	------------

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-523244</b>					
LCSSRM 460-523244/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-523244/1-A ^2	Method Blank	T	Solid	3050B	
460-156722-1	SS-025 (0-3")	T	Solid	3050B	
460-156722-2	SS-026 (0-3")	T	Solid	3050B	
460-156722-3	SS-027 (0-3")	T	Solid	3050B	
460-156722-4	SS-027 (18"-24")	T	Solid	3050B	
<b>Prep Batch: 460-523508</b>					
LCSSRM 460-523508/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	
MB 460-523508/1-A	Method Blank	T	Solid	7471B	
460-156722-5	SS-028 (0-3")	T	Solid	7471B	
460-156722-6	SS-029 (0-3")	T	Solid	7471B	
460-156722-7	SS-030 (0-3")	T	Solid	7471B	
460-156722-8	SS-031 (0-3")	T	Solid	7471B	
460-156722-9	SS-031 (18"-24")	T	Solid	7471B	
460-156904-G-2-I DU	Duplicate	T	Solid	7471B	
460-156904-G-2-J MS	Matrix Spike	T	Solid	7471B	
<b>Prep Batch: 460-523536</b>					
LCSSRM 460-523536/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-523536/1-A ^2	Method Blank	T	Solid	3050B	
460-156722-5	SS-028 (0-3")	T	Solid	3050B	
460-156722-6	SS-029 (0-3")	T	Solid	3050B	
460-156722-7	SS-030 (0-3")	T	Solid	3050B	
460-156722-8	SS-031 (0-3")	T	Solid	3050B	
460-156722-9	SS-031 (18"-24")	T	Solid	3050B	
460-156722-10	SS-032 (0-3")	T	Solid	3050B	
460-156722-11	SS-033 (0-3")	T	Solid	3050B	
460-156722-12	SS-034 (0-3")	T	Solid	3050B	
460-156722-13	SS-034 (18"-24")	T	Solid	3050B	
460-156722-14	SS-035 (0-3")	T	Solid	3050B	
460-156722-15	SS-036 (0-3")	T	Solid	3050B	
460-156722-16	SS-036 (18"-24")	T	Solid	3050B	
460-156722-16DU	Duplicate	T	Solid	3050B	
460-156722-16MS	Matrix Spike	T	Solid	3050B	
460-156722-17	SS-037 (0-3")	T	Solid	3050B	
460-156722-18	SS-038 (0-3")	T	Solid	3050B	
460-156722-19	SS-038 (18"-24")	T	Solid	3050B	
460-156722-20	SS-039 (0-3")	T	Solid	3050B	
460-156722-31	SS-040 (0-3")	T	Solid	3050B	
460-156722-32	SS-041 (0-3")	T	Solid	3050B	
460-156722-33	SS-041 (18"-24")	T	Solid	3050B	
460-156722-34	SS-042 (0-3")	T	Solid	3050B	

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-523537</b>					
LCSSRM 460-523537/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-523537/1-A ^2	Method Blank	T	Solid	3050B	
460-155425-C-1-K DU ^4	Duplicate	T	Solid	3050B	
460-155425-A-1-X MS ^4	Matrix Spike	T	Solid	3050B	
460-155425-A-1-Y MSD ^4	Matrix Spike Duplicate	T	Solid	3050B	
460-156722-35	SS-043 (0-3")	T	Solid	3050B	
460-156722-36	SS-043 (18"-24")	T	Solid	3050B	
460-156722-37	SS-044 (0-3")	T	Solid	3050B	
460-156722-38	SS-045 (0-3")	T	Solid	3050B	
460-156722-39	SS-007 (18"-24")	T	Solid	3050B	
460-156722-40	Dup-003	T	Solid	3050B	
460-156722-41	Dup-004	T	Solid	3050B	
<b>Analysis Batch:460-523623</b>					
LCSSRM 460-523508/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	460-523508
MB 460-523508/1-A	Method Blank	T	Solid	7471B	460-523508
460-156722-5	SS-028 (0-3")	T	Solid	7471B	460-523508
460-156722-6	SS-029 (0-3")	T	Solid	7471B	460-523508
460-156722-7	SS-030 (0-3")	T	Solid	7471B	460-523508
460-156722-8	SS-031 (0-3")	T	Solid	7471B	460-523508
460-156722-9	SS-031 (18"-24")	T	Solid	7471B	460-523508
460-156904-G-2-I DU	Duplicate	T	Solid	7471B	460-523508
460-156904-G-2-J MS	Matrix Spike	T	Solid	7471B	460-523508



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:460-523625</b>					
LCSSRM 460-523244/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-523244
MB 460-523244/1-A ^2	Method Blank	T	Solid	6010C	460-523244
LCSSRM 460-523536/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-523536
MB 460-523536/1-A ^2	Method Blank	T	Solid	6010C	460-523536
LCSSRM 460-523537/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-523537
MB 460-523537/1-A ^2	Method Blank	T	Solid	6010C	460-523537
460-155425-C-1-K DU ^4	Duplicate	T	Solid	6010C	460-523537
460-155425-A-1-X MS ^4	Matrix Spike	T	Solid	6010C	460-523537
460-155425-A-1-Y MSD ^4	Matrix Spike Duplicate	T	Solid	6010C	460-523537
460-156722-1	SS-025 (0-3")	T	Solid	6010C	460-523244
460-156722-2	SS-026 (0-3")	T	Solid	6010C	460-523244
460-156722-3	SS-027 (0-3")	T	Solid	6010C	460-523244
460-156722-4	SS-027 (18"-24")	T	Solid	6010C	460-523244
460-156722-5	SS-028 (0-3")	T	Solid	6010C	460-523536
460-156722-6	SS-029 (0-3")	T	Solid	6010C	460-523536
460-156722-7	SS-030 (0-3")	T	Solid	6010C	460-523536
460-156722-8	SS-031 (0-3")	T	Solid	6010C	460-523536
460-156722-9	SS-031 (18"-24")	T	Solid	6010C	460-523536
460-156722-10	SS-032 (0-3")	T	Solid	6010C	460-523536
460-156722-11	SS-033 (0-3")	T	Solid	6010C	460-523536
460-156722-12	SS-034 (0-3")	T	Solid	6010C	460-523536
460-156722-13	SS-034 (18"-24")	T	Solid	6010C	460-523536
460-156722-14	SS-035 (0-3")	T	Solid	6010C	460-523536
460-156722-15	SS-036 (0-3")	T	Solid	6010C	460-523536
460-156722-16	SS-036 (18"-24")	T	Solid	6010C	460-523536
460-156722-16DU	Duplicate	T	Solid	6010C	460-523536
460-156722-16MS	Matrix Spike	T	Solid	6010C	460-523536
460-156722-18	SS-038 (0-3")	T	Solid	6010C	460-523536
460-156722-19	SS-038 (18"-24")	T	Solid	6010C	460-523536
460-156722-20	SS-039 (0-3")	T	Solid	6010C	460-523536
460-156722-31	SS-040 (0-3")	T	Solid	6010C	460-523536
460-156722-32	SS-041 (0-3")	T	Solid	6010C	460-523536
460-156722-33	SS-041 (18"-24")	T	Solid	6010C	460-523536
460-156722-36	SS-043 (18"-24")	T	Solid	6010C	460-523537
460-156722-37	SS-044 (0-3")	T	Solid	6010C	460-523537
460-156722-38	SS-045 (0-3")	T	Solid	6010C	460-523537
460-156722-39	SS-007 (18"-24")	T	Solid	6010C	460-523537
460-156722-40	Dup-003	T	Solid	6010C	460-523537
460-156722-41	Dup-004	T	Solid	6010C	460-523537



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-523839</b>					
LCSSRM 460-523839/11-A	^4LCS-Certified Reference Material	T	Solid	7471B	
MB 460-523839/10-A	Method Blank	T	Solid	7471B	
460-156398-A-1-W DU	Duplicate	T	Solid	7471B	
460-156398-A-1-X MS	Matrix Spike	T	Solid	7471B	
460-156722-1	SS-025 (0-3")	T	Solid	7471B	
460-156722-2	SS-026 (0-3")	T	Solid	7471B	
460-156722-3	SS-027 (0-3")	T	Solid	7471B	
460-156722-4	SS-027 (18"-24")	T	Solid	7471B	
460-156722-10	SS-032 (0-3")	T	Solid	7471B	
460-156722-11	SS-033 (0-3")	T	Solid	7471B	
460-156722-12	SS-034 (0-3")	T	Solid	7471B	
460-156722-13	SS-034 (18"-24")	T	Solid	7471B	
460-156722-14	SS-035 (0-3")	T	Solid	7471B	
460-156722-15	SS-036 (0-3")	T	Solid	7471B	
460-156722-16	SS-036 (18"-24")	T	Solid	7471B	
460-156722-17	SS-037 (0-3")	T	Solid	7471B	
460-156722-18	SS-038 (0-3")	T	Solid	7471B	
460-156722-19	SS-038 (18"-24")	T	Solid	7471B	
460-156722-20	SS-039 (0-3")	T	Solid	7471B	
460-156722-31	SS-040 (0-3")	T	Solid	7471B	
460-156722-32	SS-041 (0-3")	T	Solid	7471B	
460-156722-33	SS-041 (18"-24")	T	Solid	7471B	
<b>Prep Batch: 460-523847</b>					
LCSSRM 460-523847/2-A	^40LCS-Certified Reference Material	T	Solid	7471B	
MB 460-523847/1-A	Method Blank	T	Solid	7471B	
460-156722-34	SS-042 (0-3")	T	Solid	7471B	
460-156722-35	SS-043 (0-3")	T	Solid	7471B	
460-156722-36	SS-043 (18"-24")	T	Solid	7471B	
460-156722-37	SS-044 (0-3")	T	Solid	7471B	
460-156722-38	SS-045 (0-3")	T	Solid	7471B	
460-156722-39	SS-007 (18"-24")	T	Solid	7471B	
460-156722-40	Dup-003	T	Solid	7471B	
460-156722-41	Dup-004	T	Solid	7471B	
460-156902-A-3-D DU	Duplicate	T	Solid	7471B	
460-156902-E-3-N MS	Matrix Spike	T	Solid	7471B	
<b>Analysis Batch:460-523968</b>					
460-156722-17	SS-037 (0-3")	T	Solid	6010C	460-523536
460-156722-34	SS-042 (0-3")	T	Solid	6010C	460-523536
460-156722-35	SS-043 (0-3")	T	Solid	6010C	460-523537

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:460-524001</b>					
LCSSRM 460-523839/11-A ^4	LCS-Certified Reference Material	T	Solid	7471B	460-523839
MB 460-523839/10-A	Method Blank	T	Solid	7471B	460-523839
LCSSRM 460-523847/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	460-523847
MB 460-523847/1-A	Method Blank	T	Solid	7471B	460-523847
460-156398-A-1-W DU	Duplicate	T	Solid	7471B	460-523839
460-156398-A-1-X MS	Matrix Spike	T	Solid	7471B	460-523839
460-156722-1	SS-025 (0-3")	T	Solid	7471B	460-523839
460-156722-2	SS-026 (0-3")	T	Solid	7471B	460-523839
460-156722-3	SS-027 (0-3")	T	Solid	7471B	460-523839
460-156722-4	SS-027 (18"-24")	T	Solid	7471B	460-523839
460-156722-10	SS-032 (0-3")	T	Solid	7471B	460-523839
460-156722-11	SS-033 (0-3")	T	Solid	7471B	460-523839
460-156722-12	SS-034 (0-3")	T	Solid	7471B	460-523839
460-156722-13	SS-034 (18"-24")	T	Solid	7471B	460-523839
460-156722-14	SS-035 (0-3")	T	Solid	7471B	460-523839
460-156722-15	SS-036 (0-3")	T	Solid	7471B	460-523839
460-156722-16	SS-036 (18"-24")	T	Solid	7471B	460-523839
460-156722-17	SS-037 (0-3")	T	Solid	7471B	460-523839
460-156722-18	SS-038 (0-3")	T	Solid	7471B	460-523839
460-156722-19	SS-038 (18"-24")	T	Solid	7471B	460-523839
460-156722-20	SS-039 (0-3")	T	Solid	7471B	460-523839
460-156722-31	SS-040 (0-3")	T	Solid	7471B	460-523839
460-156722-32	SS-041 (0-3")	T	Solid	7471B	460-523839
460-156722-33	SS-041 (18"-24")	T	Solid	7471B	460-523839
460-156722-34	SS-042 (0-3")	T	Solid	7471B	460-523847
460-156722-35	SS-043 (0-3")	T	Solid	7471B	460-523847
460-156722-36	SS-043 (18"-24")	T	Solid	7471B	460-523847
460-156722-37	SS-044 (0-3")	T	Solid	7471B	460-523847
460-156722-38	SS-045 (0-3")	T	Solid	7471B	460-523847
460-156722-39	SS-007 (18"-24")	T	Solid	7471B	460-523847
460-156722-40	Dup-003	T	Solid	7471B	460-523847
460-156722-41	Dup-004	T	Solid	7471B	460-523847
460-156902-A-3-D DU	Duplicate	T	Solid	7471B	460-523847
460-156902-E-3-N MS	Matrix Spike	T	Solid	7471B	460-523847



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-524795</b>					
LCSSRM 460-524795/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-524795/1-A ^2	Method Blank	T	Solid	3050B	
460-156722-43	SS-026 (18"-24")	T	Solid	3050B	
460-156722-44	SS-028 (18"-24")	T	Solid	3050B	
460-156722-48	SS-033 (18"-24")	T	Solid	3050B	
460-156722-49	SS-035 (18"-24")	T	Solid	3050B	
460-156722-51	SS-039 (18"-24")	T	Solid	3050B	
460-156722-53	SS-042 (18"-24")	T	Solid	3050B	
460-156722-53DU	Duplicate	T	Solid	3050B	
460-156722-53MS	Matrix Spike	T	Solid	3050B	
460-156722-56	SS-001 (18"-24")	T	Solid	3050B	
460-156722-57	SS-002 (18"-24")	T	Solid	3050B	
460-156722-59	SS-005 (18"-24")	T	Solid	3050B	
460-156722-61	SS-008 (18"-24")	T	Solid	3050B	
460-156722-62	SS-009 (18"-24")	T	Solid	3050B	
460-156722-63	SS-010 (18"-24")	T	Solid	3050B	
<b>Prep Batch: 460-524830</b>					
LCSSRM 460-524830/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	
MB 460-524830/1-A	Method Blank	T	Solid	7471B	
460-156722-42	SS-025 (18"-24")	T	Solid	7471B	
460-156722-43	SS-026 (18"-24")	T	Solid	7471B	
460-156722-44	SS-028 (18"-24")	T	Solid	7471B	
460-156722-48	SS-033 (18"-24")	T	Solid	7471B	
460-156722-49	SS-035 (18"-24")	T	Solid	7471B	
460-156722-51	SS-039 (18"-24")	T	Solid	7471B	
460-156722-53	SS-042 (18"-24")	T	Solid	7471B	
460-156722-54	SS-044 (18"-24")	T	Solid	7471B	
460-156722-56	SS-001 (18"-24")	T	Solid	7471B	
460-156722-57	SS-002 (18"-24")	T	Solid	7471B	
460-156722-59	SS-005 (18"-24")	T	Solid	7471B	
460-157003-A-2-U DU	Duplicate	T	Solid	7471B	
460-157003-A-2-V MS	Matrix Spike	T	Solid	7471B	
460-157003-A-2-W MSD	Matrix Spike Duplicate	T	Solid	7471B	
<b>Prep Batch: 460-524835</b>					
LCSSRM 460-524835/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	
MB 460-524835/1-A	Method Blank	T	Solid	7471B	
460-156722-60	SS-006 (18"-24")	T	Solid	7471B	
460-156722-61	SS-008 (18"-24")	T	Solid	7471B	
460-156722-62	SS-009 (18"-24")	T	Solid	7471B	
460-156722-63	SS-010 (18"-24")	T	Solid	7471B	
460-157001-A-1-X DU	Duplicate	T	Solid	7471B	
460-157001-B-1-M MS	Matrix Spike	T	Solid	7471B	
460-157001-B-1-N MSD	Matrix Spike Duplicate	T	Solid	7471B	

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:460-524920</b>					
LCSSRM 460-524830/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	460-524830
MB 460-524830/1-A	Method Blank	T	Solid	7471B	460-524830
LCSSRM 460-524835/2-A ^40	LCS-Certified Reference Material	T	Solid	7471B	460-524835
MB 460-524835/1-A	Method Blank	T	Solid	7471B	460-524835
460-156722-42	SS-025 (18"-24")	T	Solid	7471B	460-524830
460-156722-43	SS-026 (18"-24")	T	Solid	7471B	460-524830
460-156722-44	SS-028 (18"-24")	T	Solid	7471B	460-524830
460-156722-48	SS-033 (18"-24")	T	Solid	7471B	460-524830
460-156722-49	SS-035 (18"-24")	T	Solid	7471B	460-524830
460-156722-51	SS-039 (18"-24")	T	Solid	7471B	460-524830
460-156722-53	SS-042 (18"-24")	T	Solid	7471B	460-524830
460-156722-54	SS-044 (18"-24")	T	Solid	7471B	460-524830
460-156722-56	SS-001 (18"-24")	T	Solid	7471B	460-524830
460-156722-57	SS-002 (18"-24")	T	Solid	7471B	460-524830
460-156722-59	SS-005 (18"-24")	T	Solid	7471B	460-524830
460-156722-60	SS-006 (18"-24")	T	Solid	7471B	460-524835
460-156722-61	SS-008 (18"-24")	T	Solid	7471B	460-524835
460-156722-62	SS-009 (18"-24")	T	Solid	7471B	460-524835
460-156722-63	SS-010 (18"-24")	T	Solid	7471B	460-524835
460-157001-A-1-X DU	Duplicate	T	Solid	7471B	460-524835
460-157001-B-1-M MS	Matrix Spike	T	Solid	7471B	460-524835
460-157001-B-1-N MSD	Matrix Spike Duplicate	T	Solid	7471B	460-524835
460-157003-A-2-U DU	Duplicate	T	Solid	7471B	460-524830
460-157003-A-2-V MS	Matrix Spike	T	Solid	7471B	460-524830
460-157003-A-2-W MSD	Matrix Spike Duplicate	T	Solid	7471B	460-524830
<b>Analysis Batch:460-525595</b>					
LCSSRM 460-524795/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-524795
MB 460-524795/1-A ^2	Method Blank	T	Solid	6010C	460-524795
460-156722-43	SS-026 (18"-24")	T	Solid	6010C	460-524795
460-156722-44	SS-028 (18"-24")	T	Solid	6010C	460-524795
460-156722-48	SS-033 (18"-24")	T	Solid	6010C	460-524795
460-156722-49	SS-035 (18"-24")	T	Solid	6010C	460-524795
460-156722-51	SS-039 (18"-24")	T	Solid	6010C	460-524795
460-156722-53	SS-042 (18"-24")	T	Solid	6010C	460-524795
460-156722-53DU	Duplicate	T	Solid	6010C	460-524795
460-156722-53MS	Matrix Spike	T	Solid	6010C	460-524795
460-156722-56	SS-001 (18"-24")	T	Solid	6010C	460-524795
460-156722-57	SS-002 (18"-24")	T	Solid	6010C	460-524795
460-156722-59	SS-005 (18"-24")	T	Solid	6010C	460-524795
460-156722-61	SS-008 (18"-24")	T	Solid	6010C	460-524795
460-156722-62	SS-009 (18"-24")	T	Solid	6010C	460-524795
460-156722-63	SS-010 (18"-24")	T	Solid	6010C	460-524795

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
---------------	------------------	--------------	---------------	--------	------------

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:460-522172</b>					
460-156722-1	SS-025 (0-3")	T	Solid	Moisture	
460-156722-2	SS-026 (0-3")	T	Solid	Moisture	
460-156722-3	SS-027 (0-3")	T	Solid	Moisture	
460-156722-4	SS-027 (18"-24")	T	Solid	Moisture	
460-156722-5	SS-028 (0-3")	T	Solid	Moisture	
460-156722-5DU	Duplicate	T	Solid	Moisture	
<b>Analysis Batch:460-522180</b>					
460-156722-6	SS-029 (0-3")	T	Solid	Moisture	
460-156722-7	SS-030 (0-3")	T	Solid	Moisture	
460-156722-8	SS-031 (0-3")	T	Solid	Moisture	
460-156722-9	SS-031 (18"-24")	T	Solid	Moisture	
460-156722-10	SS-032 (0-3")	T	Solid	Moisture	
460-156722-10DU	Duplicate	T	Solid	Moisture	
<b>Analysis Batch:460-522486</b>					
460-156722-16	SS-036 (18"-24")	T	Solid	Moisture	
460-156722-17	SS-037 (0-3")	T	Solid	Moisture	
460-156722-18	SS-038 (0-3")	T	Solid	Moisture	
460-156722-19	SS-038 (18"-24")	T	Solid	Moisture	
460-156722-20	SS-039 (0-3")	T	Solid	Moisture	
460-156722-31	SS-040 (0-3")	T	Solid	Moisture	
460-156722-32	SS-041 (0-3")	T	Solid	Moisture	
460-156722-33	SS-041 (18"-24")	T	Solid	Moisture	
460-156722-34	SS-042 (0-3")	T	Solid	Moisture	
460-156722-35	SS-043 (0-3")	T	Solid	Moisture	
460-156722-36	SS-043 (18"-24")	T	Solid	Moisture	
460-156894-A-5 DU	Duplicate	T	Solid	Moisture	
<b>Analysis Batch:460-522511</b>					
460-156722-37	SS-044 (0-3")	T	Solid	Moisture	
460-156722-37DU	Duplicate	T	Solid	Moisture	
<b>Analysis Batch:460-522518</b>					
460-156722-38	SS-045 (0-3")	T	Solid	Moisture	
460-156722-39	SS-007 (18"-24")	T	Solid	Moisture	
460-156722-40	Dup-003	T	Solid	Moisture	
460-156722-41	Dup-004	T	Solid	Moisture	
460-156895-A-16 DU	Duplicate	T	Solid	Moisture	

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:460-522536</b>					
460-156398-A-1 DU	Duplicate	T	Solid	Moisture	
460-156722-11	SS-033 (0-3")	T	Solid	Moisture	
460-156722-12	SS-034 (0-3")	T	Solid	Moisture	
460-156722-13	SS-034 (18"-24")	T	Solid	Moisture	
460-156722-14	SS-035 (0-3")	T	Solid	Moisture	
460-156722-15	SS-036 (0-3")	T	Solid	Moisture	
<b>Analysis Batch:460-525530</b>					
460-156722-42	SS-025 (18"-24")	T	Solid	Moisture	
460-156722-43	SS-026 (18"-24")	T	Solid	Moisture	
460-156722-44	SS-028 (18"-24")	T	Solid	Moisture	
460-156722-48	SS-033 (18"-24")	T	Solid	Moisture	
460-156722-49	SS-035 (18"-24")	T	Solid	Moisture	
460-156722-51	SS-039 (18"-24")	T	Solid	Moisture	
460-156722-53	SS-042 (18"-24")	T	Solid	Moisture	
460-156722-54	SS-044 (18"-24")	T	Solid	Moisture	
460-156722-56	SS-001 (18"-24")	T	Solid	Moisture	
460-156722-57	SS-002 (18"-24")	T	Solid	Moisture	
460-156722-59	SS-005 (18"-24")	T	Solid	Moisture	
460-156722-60	SS-006 (18"-24")	T	Solid	Moisture	
460-156722-61	SS-008 (18"-24")	T	Solid	Moisture	
460-156722-62	SS-009 (18"-24")	T	Solid	Moisture	
460-156722-63	SS-010 (18"-24")	T	Solid	Moisture	
460-157504-A-2 DU	Duplicate	T	Solid	Moisture	

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Surrogate Recovery Report

#### 8081B Organochlorine Pesticides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCBP1 %Rec	DCBP2 %Rec	TCX1 %Rec	TCX2 %Rec
460-156722-1	SS-025 (0-3")	133	114	98	101
460-156722-2 DL	SS-026 (0-3") DL	114	97	97	91
460-156722-3	SS-027 (0-3")	113	106	94	87
460-156722-4	SS-027 (18"-24")	107	105	95	87
460-156722-5 DL	SS-028 (0-3") DL	0X	0X	0X	0X
460-156722-6	SS-029 (0-3")	88	88	90	82
460-156722-7	SS-030 (0-3")	85	89	82	84
460-156722-8	SS-031 (0-3")	83	79	82	71X
460-156722-9	SS-031 (18"-24")	104	101	84	102
460-156722-10	SS-032 (0-3")	100	96	79	88
460-156722-11	SS-033 (0-3")	149	118	101	96
460-156722-12 DL	SS-034 (0-3") DL	0X	0X	0X	0X
460-156722-13	SS-034 (18"-24")	96	91	89	90
460-156722-14 DL	SS-035 (0-3") DL	74	95	67X	78
460-156722-15	SS-036 (0-3")	120	123	112	106
460-156722-16	SS-036 (18"-24")	83	85	75	77
460-156722-17	SS-037 (0-3")	98	88	88	81
460-156722-18	SS-038 (0-3")	108	100	91	92
460-156722-19	SS-038 (18"-24")	112	106	96	97
460-156722-20 DL	SS-039 (0-3") DL	78	92	77	79
460-156722-31	SS-040 (0-3")	104	107	98	106
460-156722-32	SS-041 (0-3")	157X	108	100	104
460-156722-33	SS-041 (18"-24")	120	117	106	120
460-156722-34	SS-042 (0-3")	107	103	95	103
460-156722-35	SS-043 (0-3")	109	105	102	110
460-156722-36	SS-043 (18"-24")	108	106	96	102
460-156722-37	SS-044 (0-3")	110	112	112	112
460-156722-38	SS-045 (0-3")	103	111	105	105
460-156722-39	SS-007 (18"-24")	99	98	99	112

Surrogate

Acceptance Limits

DCBP = DCB Decachlorobiphenyl

69-150

TCX = Tetrachloro-m-xylene

74-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Surrogate Recovery Report

#### 8081B Organochlorine Pesticides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCBP1 %Rec	DCBP2 %Rec	TCX1 %Rec	TCX2 %Rec
460-156722-40 DL	Dup-003 DL	93	105	78	108
460-156722-41	Dup-004	109	106	99	100
460-156722-42	SS-025 (18"-24")	90	92	92	88
460-156722-43	SS-026 (18"-24")	76	83	80	81
460-156722-44	SS-028 (18"-24")	103	101	85	82
460-156722-48	SS-033 (18"-24")	105	102	89	91
460-156722-49	SS-035 (18"-24")	93	91	76	80
460-156722-51	SS-039 (18"-24")	95	91	79	81
460-156722-53	SS-042 (18"-24")	88	88	78	76
460-156722-54	SS-044 (18"-24")	94	89	78	81
460-156722-56	SS-001 (18"-24")	101	93	87	82
460-156722-57	SS-002 (18"-24")	101	104	92	90
460-156722-59	SS-005 (18"-24")	99	97	87	86
460-156722-60	SS-006 (18"-24")	100	104	87	89
460-156722-61	SS-008 (18"-24")	98	98	89	86
460-156722-62	SS-009 (18"-24")	96	94	84	84
460-156722-63	SS-010 (18"-24")	83	91	86	85
MB 460-522576/1-A		95	97	93	96
MB 460-523075/1-A		113	117	109	108
MB 460-524559/1-A		88	96	79	89
LCS 460-522576/2-A		105	93	92	87
LCS 460-523075/2-A		95	96	95	91
LCS 460-524559/2-A		83	89	77	80
460-156722-1 MS	SS-025 (0-3") MS	87	91	81	75
460-156722-42 MS	SS-025 (18"-24") MS	87	88	83	74
460-156656-C-4-A MS		148	110	102	96
460-156722-1 MSD	SS-025 (0-3") MSD	96	101	81	88
460-156722-42 MSD	SS-025 (18"-24") MSD	86	89	86	81

Surrogate	Acceptance Limits
DCBP = DCB Decachlorobiphenyl	69-150
TCX = Tetrachloro-m-xylene	74-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Surrogate Recovery Report

#### 8081B Organochlorine Pesticides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCBP1 %Rec	DCBP2 %Rec	TCX1 %Rec	TCX2 %Rec
460-156656-C-4-B MSD		94	97	93	89

Surrogate

Acceptance Limits

DCBP = DCB Decachlorobiphenyl

69-150

TCX = Tetrachloro-m-xylene

74-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Surrogate Recovery Report

#### 8151A Herbicides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCPAA1	DCPAA2
		%Rec	%Rec
460-156722-1	SS-025 (0-3")	130	128
460-156722-2	SS-026 (0-3")	88	86
460-156722-3	SS-027 (0-3")	133	124
460-156722-4	SS-027 (18"-24")	138	128
460-156722-5	SS-028 (0-3")	116	110
460-156722-6	SS-029 (0-3")	137	139
460-156722-7	SS-030 (0-3")	133	128
460-156722-8	SS-031 (0-3")	139	127
460-156722-9	SS-031 (18"-24")	138	128
460-156722-10	SS-032 (0-3")	109	148
460-156722-11	SS-033 (0-3")	103	130
460-156722-12	SS-034 (0-3")	105	105
460-156722-13	SS-034 (18"-24")	115	121
460-156722-14	SS-035 (0-3")	98	143
460-156722-15	SS-036 (0-3")	132	144
460-156722-16	SS-036 (18"-24")	131	131
460-156722-17	SS-037 (0-3")	127	135
460-156722-18	SS-038 (0-3")	114	138
460-156722-19	SS-038 (18"-24")	120	150
460-156722-20	SS-039 (0-3")	133	135
460-156722-31	SS-040 (0-3")	110	147
460-156722-32	SS-041 (0-3")	109	131
460-156722-33	SS-041 (18"-24")	133	144
460-156722-34	SS-042 (0-3")	120	174X
460-156722-35	SS-043 (0-3")	128	148
460-156722-36	SS-043 (18"-24")	134	147
460-156722-37	SS-044 (0-3")	107	131
460-156722-38	SS-045 (0-3")	142	133
460-156722-39	SS-007 (18"-24")	125	137

Surrogate

Acceptance Limits

DCPAA = 2,4-Dichlorophenylacetic acid

80-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Surrogate Recovery Report

#### 8151A Herbicides (GC)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCPAA1	DCPAA2
		%Rec	%Rec
460-156722-40	Dup-003	91p	148
460-156722-41	Dup-004	149	137
MB 460-522380/1-A		139	144
MB 460-522752/1-A		128	132
LCS 460-522380/2-A		139	138
LCS 460-522752/2-A		161X	156X
460-156504-A-2-B MS		138	158X
460-156504-A-2-C MSD		141	155X

Surrogate

Acceptance Limits

DCPAA = 2,4-Dichlorophenylacetic acid

80-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-522576

### Method: 8081B Preparation: 3546

Lab Sample ID: MB 460-522576/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/29/2018 2104  
Prep Date: 05/25/2018 1402  
Leach Date: N/A

Analysis Batch: 460-523330  
Prep Batch: 460-522576  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC4  
Lab File ID: P4078048.D  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.0067	U	0.0011	0.0067
4,4'-DDE	0.0067	U	0.00079	0.0067
4,4'-DDT	0.0067	U	0.0012	0.0067
Aldrin	0.0067	U	0.0010	0.0067
alpha-BHC	0.0020	U	0.00068	0.0020
beta-BHC	0.0020	U	0.00075	0.0020
Chlordane (technical)	0.067	U	0.016	0.067
delta-BHC	0.0020	U	0.00041	0.0020
Dieldrin	0.0020	U	0.00087	0.0020
Endosulfan I	0.0067	U	0.0010	0.0067
Endosulfan II	0.0067	U	0.0017	0.0067
Endosulfan sulfate	0.0067	U	0.00084	0.0067
Endrin	0.0067	U	0.00096	0.0067
Endrin aldehyde	0.0067	U	0.0016	0.0067
Endrin ketone	0.0067	U	0.0013	0.0067
gamma-BHC (Lindane)	0.0020	U	0.00062	0.0020
Heptachlor	0.0067	U	0.00079	0.0067
Heptachlor epoxide	0.0067	U	0.0010	0.0067
Methoxychlor	0.0067	U	0.0015	0.0067
Toxaphene	0.067	U	0.024	0.067

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	97	69 - 150
Tetrachloro-m-xylene	96	74 - 150

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	95	69 - 150
Tetrachloro-m-xylene	93	74 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Lab Control Sample - Batch: 460-522576

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-522576/2-A	Analysis Batch:	460-523330	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-522576	Lab File ID:	P4078047.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/29/2018 2052	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/25/2018 1402			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.142	107	67 - 130	
4,4'-DDE	0.133	0.145	108	70 - 127	
4,4'-DDT	0.133	0.151	113	70 - 122	
Aldrin	0.133	0.146	109	66 - 137	
alpha-BHC	0.133	0.151	113	65 - 142	
beta-BHC	0.133	0.145	109	70 - 132	
delta-BHC	0.133	0.152	114	65 - 136	
Dieldrin	0.133	0.153	115	70 - 134	
Endosulfan I	0.133	0.152	114	70 - 136	
Endosulfan II	0.133	0.152	114	72 - 127	
Endosulfan sulfate	0.133	0.133	100	71 - 128	
Endrin	0.133	0.155	116	74 - 129	
Endrin aldehyde	0.133	0.149	112	71 - 129	
Endrin ketone	0.133	0.139	104	68 - 135	
gamma-BHC (Lindane)	0.133	0.147	111	68 - 136	
Heptachlor	0.133	0.144	108	68 - 132	
Heptachlor epoxide	0.133	0.147	110	72 - 131	
Methoxychlor	0.133	0.128	96	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	105		69 - 150		
Tetrachloro-m-xylene	92		74 - 150		

### Lab Control Sample - Batch: 460-522576

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-522576/2-A	Analysis Batch:	460-523330	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-522576	Lab File ID:	P4078047.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/29/2018 2052	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/25/2018 1402			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.136	102	67 - 130	
4,4'-DDE	0.133	0.143	107	70 - 127	
4,4'-DDT	0.133	0.132	99	70 - 122	
Aldrin	0.133	0.128	96	66 - 137	
alpha-BHC	0.133	0.137	103	65 - 142	
beta-BHC	0.133	0.136	102	70 - 132	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Lab Control Sample - Batch: 460-522576

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-522576/2-A	Analysis Batch:	460-523330	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-522576	Lab File ID:	P4078047.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/29/2018 2052	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/25/2018 1402			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
delta-BHC	0.133	0.133	100	65 - 136	
Dieldrin	0.133	0.140	105	70 - 134	
Endosulfan I	0.133	0.138	104	70 - 136	
Endosulfan II	0.133	0.135	102	72 - 127	
Endosulfan sulfate	0.133	0.131	98	71 - 128	
Endrin	0.133	0.144	108	74 - 129	
Endrin aldehyde	0.133	0.128	96	71 - 129	
Endrin ketone	0.133	0.133	100	68 - 135	
gamma-BHC (Lindane)	0.133	0.132	99	68 - 136	
Heptachlor	0.133	0.131	98	68 - 132	
Heptachlor epoxide	0.133	0.137	102	72 - 131	
Methoxychlor	0.133	0.122	92	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	93		69 - 150		
Tetrachloro-m-xylene	87		74 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 460-522576**

**Method: 8081B  
Preparation: 3546**

MS Lab Sample ID: 460-156722-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/29/2018 1626  
Prep Date: 05/25/2018 1402  
Leach Date: N/A

Analysis Batch: 460-523330  
Prep Batch: 460-522576  
Leach Batch: N/A

Instrument ID: CPESTGC4  
Lab File ID: P4078025.D  
Initial Weight/Volume: 15.0159 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

MSD Lab Sample ID: 460-156722-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/29/2018 1639  
Prep Date: 05/25/2018 1402  
Leach Date: N/A

Analysis Batch: 460-523330  
Prep Batch: 460-522576  
Leach Batch: N/A

Instrument ID: CPESTGC4  
Lab File ID: P4078026.D  
Initial Weight/Volume: 15.0215 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	95	104	67 - 130	9	30		
4,4'-DDE	93	89	70 - 127	5	30		
4,4'-DDT	77	80	70 - 122	3	30		
Aldrin	86	82	66 - 137	5	30		
alpha-BHC	81	78	65 - 142	3	30		
beta-BHC	68	81	70 - 132	17	30	F1	
delta-BHC	0	0	65 - 136	NC	30	U F1	U F1
Dieldrin	75	77	70 - 134	4	30		
Endosulfan I	82	79	70 - 136	4	30		
Endosulfan II	23	42	72 - 127	60	30	F1	F1 F2
Endosulfan sulfate	2	5	71 - 128	87	30	J F1 p	p F2 F1
Endrin	78	81	74 - 129	4	30		
Endrin aldehyde	0	4	71 - 129	NC	30	U F1	J p F1
Endrin ketone	0	0	68 - 135	NC	30	U F1	U F1
gamma-BHC (Lindane)	71	72	68 - 136	2	30		
Heptachlor	85	82	68 - 132	4	30		
Heptachlor epoxide	98	106	72 - 131	7	30		
Methoxychlor	40	52	63 - 135	27	30	F1	F1
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
DCB Decachlorobiphenyl	91		101		69 - 150		
Tetrachloro-m-xylene	81		88		74 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-522576

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156722-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/29/2018 1626  
Prep Date: 05/25/2018 1402  
Leach Date: N/A

Analysis Batch: 460-523330  
Prep Batch: 460-522576  
Leach Batch: N/A

Instrument ID: CPESTGC4  
Lab File ID: P4078025.D  
Initial Weight/Volume: 15.0159 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

MSD Lab Sample ID: 460-156722-1  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/29/2018 1639  
Prep Date: 05/25/2018 1402  
Leach Date: N/A

Analysis Batch: 460-523330  
Prep Batch: 460-522576  
Leach Batch: N/A

Instrument ID: CPESTGC4  
Lab File ID: P4078026.D  
Initial Weight/Volume: 15.0215 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	72	74	67 - 130	3	30		
4,4'-DDE	90	88	70 - 127	3	30		
4,4'-DDT	81	76	70 - 122	6	30		
Aldrin	78	81	66 - 137	3	30		
alpha-BHC	69	73	65 - 142	6	30		
beta-BHC	58	70	70 - 132	19	30	F1	
delta-BHC	0	0	65 - 136	NC	30	U F1	U F1
Dieldrin	74	75	70 - 134	0	30		
Endosulfan I	74	75	70 - 136	1	30		
Endosulfan II	19	37	72 - 127	61	30	F1	F1 F2
Endosulfan sulfate	4	13	71 - 128	100	30	J F1	F1 F2
Endrin	78	77	74 - 129	0	30		
Endrin aldehyde	0	17	71 - 129	NC	30	U F1	F1
Endrin ketone	0	0	68 - 135	NC	30	U F1	U F1
gamma-BHC (Lindane)	61	72	68 - 136	16	30	F1	
Heptachlor	78	80	68 - 132	1	30		
Heptachlor epoxide	94	100	72 - 131	7	30		
Methoxychlor	34	44	63 - 135	26	30	F1	F1
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
DCB Decachlorobiphenyl	87		96		69 - 150		
Tetrachloro-m-xylene	75		81		74 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-523075

### Method: 8081B Preparation: 3546

Lab Sample ID: MB 460-523075/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/29/2018 2216  
Prep Date: 05/28/2018 0119  
Leach Date: N/A

Analysis Batch: 460-523371  
Prep Batch: 460-523075  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC4  
Lab File ID: P4078054.D  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.0067	U	0.0011	0.0067
4,4'-DDE	0.0067	U	0.00079	0.0067
4,4'-DDT	0.0067	U	0.0012	0.0067
Aldrin	0.0067	U	0.0010	0.0067
alpha-BHC	0.0020	U	0.00068	0.0020
beta-BHC	0.0020	U	0.00075	0.0020
Chlordane (technical)	0.067	U	0.016	0.067
delta-BHC	0.0020	U	0.00041	0.0020
Dieldrin	0.0020	U	0.00087	0.0020
Endosulfan I	0.0067	U	0.0010	0.0067
Endosulfan II	0.0067	U	0.0017	0.0067
Endosulfan sulfate	0.0067	U	0.00084	0.0067
Endrin	0.0067	U	0.00096	0.0067
Endrin aldehyde	0.0067	U	0.0016	0.0067
Endrin ketone	0.0067	U	0.0013	0.0067
gamma-BHC (Lindane)	0.0020	U	0.00062	0.0020
Heptachlor	0.0067	U	0.00079	0.0067
Heptachlor epoxide	0.0067	U	0.0010	0.0067
Methoxychlor	0.0067	U	0.0015	0.0067
Toxaphene	0.067	U	0.024	0.067

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	117	69 - 150
Tetrachloro-m-xylene	109	74 - 150

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	113	69 - 150
Tetrachloro-m-xylene	108	74 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Lab Control Sample - Batch: 460-523075

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-523075/2-A	Analysis Batch:	460-523371	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-523075	Lab File ID:	P4078055.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/29/2018 2228	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/28/2018 0119			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.132	99	67 - 130	
4,4'-DDE	0.133	0.137	102	70 - 127	
4,4'-DDT	0.133	0.133	100	70 - 122	
Aldrin	0.133	0.137	103	66 - 137	
alpha-BHC	0.133	0.144	108	65 - 142	
beta-BHC	0.133	0.139	105	70 - 132	
delta-BHC	0.133	0.145	109	65 - 136	
Dieldrin	0.133	0.141	106	70 - 134	
Endosulfan I	0.133	0.150	113	70 - 136	
Endosulfan II	0.133	0.144	108	72 - 127	
Endosulfan sulfate	0.133	0.132	99	71 - 128	
Endrin	0.133	0.145	109	74 - 129	
Endrin aldehyde	0.133	0.137	103	71 - 129	
Endrin ketone	0.133	0.132	99	68 - 135	
gamma-BHC (Lindane)	0.133	0.140	105	68 - 136	
Heptachlor	0.133	0.135	101	68 - 132	
Heptachlor epoxide	0.133	0.138	103	72 - 131	
Methoxychlor	0.133	0.114	85	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	96		69 - 150		
Tetrachloro-m-xylene	95		74 - 150		

### Lab Control Sample - Batch: 460-523075

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-523075/2-A	Analysis Batch:	460-523371	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-523075	Lab File ID:	P4078055.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/29/2018 2228	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/28/2018 0119			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.132	99	67 - 130	
4,4'-DDE	0.133	0.129	97	70 - 127	
4,4'-DDT	0.133	0.130	98	70 - 122	
Aldrin	0.133	0.123	92	66 - 137	
alpha-BHC	0.133	0.128	96	65 - 142	
beta-BHC	0.133	0.128	96	70 - 132	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Lab Control Sample - Batch: 460-523075

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-523075/2-A	Analysis Batch:	460-523371	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-523075	Lab File ID:	P4078055.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	05/29/2018 2228	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/28/2018 0119			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
delta-BHC	0.133	0.126	95	65 - 136	
Dieldrin	0.133	0.135	101	70 - 134	
Endosulfan I	0.133	0.133	100	70 - 136	
Endosulfan II	0.133	0.141	106	72 - 127	
Endosulfan sulfate	0.133	0.128	96	71 - 128	
Endrin	0.133	0.141	106	74 - 129	
Endrin aldehyde	0.133	0.133	100	71 - 129	
Endrin ketone	0.133	0.132	99	68 - 135	
gamma-BHC (Lindane)	0.133	0.124	93	68 - 136	
Heptachlor	0.133	0.123	92	68 - 132	
Heptachlor epoxide	0.133	0.131	98	72 - 131	
Methoxychlor	0.133	0.100	75	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	95		69 - 150		
Tetrachloro-m-xylene	91		74 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-523075

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156656-C-4-A MS	Analysis Batch: 460-523572	Instrument ID: CPESTGC4
Client Matrix: Solid	Prep Batch: 460-523075	Lab File ID: P4078096.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0205 g
Analysis Date: 05/30/2018 1252		Final Weight/Volume: 10 mL
Prep Date: 05/28/2018 0119		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

MSD Lab Sample ID: 460-156656-C-4-B MSD	Analysis Batch: 460-523572	Instrument ID: CPESTGC4
Client Matrix: Solid	Prep Batch: 460-523075	Lab File ID: P4078097.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0207 g
Analysis Date: 05/30/2018 1305		Final Weight/Volume: 10 mL
Prep Date: 05/28/2018 0119		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	103	85	67 - 130	19	30		
4,4'-DDE	107	92	70 - 127	15	30		
4,4'-DDT	111	90	70 - 122	21	30		
Aldrin	106	93	66 - 137	13	30		
alpha-BHC	107	95	65 - 142	12	30		
beta-BHC	106	93	70 - 132	13	30		
delta-BHC	112	98	65 - 136	13	30		
Dieldrin	110	95	70 - 134	15	30		
Endosulfan I	112	98	70 - 136	14	30		
Endosulfan II	112	94	72 - 127	17	30		
Endosulfan sulfate	110	88	71 - 128	22	30		
Endrin	113	97	74 - 129	16	30		
Endrin aldehyde	110	91	71 - 129	19	30		
Endrin ketone	105	87	68 - 135	18	30		
gamma-BHC (Lindane)	107	94	68 - 136	12	30		
Heptachlor	103	91	68 - 132	13	30		
Heptachlor epoxide	106	94	72 - 131	12	30		
Methoxychlor	104	81	63 - 135	25	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	148		97	69 - 150			
Tetrachloro-m-xylene	102		93	74 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-523075

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156656-C-4-A MS	Analysis Batch: 460-523572	Instrument ID: CPESTGC4
Client Matrix: Solid	Prep Batch: 460-523075	Lab File ID: P4078096.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0205 g
Analysis Date: 05/30/2018 1252		Final Weight/Volume: 10 mL
Prep Date: 05/28/2018 0119		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

MSD Lab Sample ID: 460-156656-C-4-B MSD	Analysis Batch: 460-523572	Instrument ID: CPESTGC4
Client Matrix: Solid	Prep Batch: 460-523075	Lab File ID: P4078097.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0207 g
Analysis Date: 05/30/2018 1305		Final Weight/Volume: 10 mL
Prep Date: 05/28/2018 0119		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	98	82	67 - 130	18	30		
4,4'-DDE	102	87	70 - 127	16	30		
4,4'-DDT	109	87	70 - 122	22	30		
Aldrin	96	85	66 - 137	13	30		
alpha-BHC	100	89	65 - 142	12	30		
beta-BHC	105	91	70 - 132	14	30		
delta-BHC	100	89	65 - 136	12	30		
Dieldrin	104	91	70 - 134	14	30		
Endosulfan I	104	87	70 - 136	18	30		
Endosulfan II	111	94	72 - 127	17	30		
Endosulfan sulfate	102	85	71 - 128	18	30		
Endrin	110	94	74 - 129	16	30		
Endrin aldehyde	106	86	71 - 129	21	30		
Endrin ketone	104	85	68 - 135	20	30		
gamma-BHC (Lindane)	99	88	68 - 136	12	30		
Heptachlor	96	85	68 - 132	12	30		
Heptachlor epoxide	102	90	72 - 131	12	30		
Methoxychlor	86	69	63 - 135	22	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	110		94	69 - 150			
Tetrachloro-m-xylene	96		89	74 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-524559

### Method: 8081B Preparation: 3546

Lab Sample ID: MB 460-524559/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 2321  
Prep Date: 06/02/2018 0915  
Leach Date: N/A

Analysis Batch: 460-524991  
Prep Batch: 460-524559  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC4  
Lab File ID: P4078386.D  
Initial Weight/Volume: 15.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.0067	U	0.0011	0.0067
4,4'-DDE	0.0067	U	0.00079	0.0067
4,4'-DDT	0.0067	U	0.0012	0.0067
Aldrin	0.0067	U	0.0010	0.0067
alpha-BHC	0.0020	U	0.00068	0.0020
beta-BHC	0.0020	U	0.00075	0.0020
Chlordane (technical)	0.067	U	0.016	0.067
delta-BHC	0.0020	U	0.00041	0.0020
Dieldrin	0.0020	U	0.00087	0.0020
Endosulfan I	0.0067	U	0.0010	0.0067
Endosulfan II	0.0067	U	0.0017	0.0067
Endosulfan sulfate	0.0067	U	0.00084	0.0067
Endrin	0.0067	U	0.00096	0.0067
Endrin aldehyde	0.0067	U	0.0016	0.0067
Endrin ketone	0.0067	U	0.0013	0.0067
gamma-BHC (Lindane)	0.0020	U	0.00062	0.0020
Heptachlor	0.0067	U	0.00079	0.0067
Heptachlor epoxide	0.0067	U	0.0010	0.0067
Methoxychlor	0.0067	U	0.0015	0.0067
Toxaphene	0.067	U	0.024	0.067

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	96	69 - 150
Tetrachloro-m-xylene	89	74 - 150

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	88	69 - 150
Tetrachloro-m-xylene	79	74 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Lab Control Sample - Batch: 460-524559

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-524559/2-A	Analysis Batch:	460-524991	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-524559	Lab File ID:	P4078387.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	06/04/2018 2333	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	06/02/2018 0915			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.117	88	67 - 130	
4,4'-DDE	0.133	0.116	87	70 - 127	
4,4'-DDT	0.133	0.116	87	70 - 122	
Aldrin	0.133	0.109	82	66 - 137	
alpha-BHC	0.133	0.111	83	65 - 142	
beta-BHC	0.133	0.111	83	70 - 132	
delta-BHC	0.133	0.114	85	65 - 136	
Dieldrin	0.133	0.115	87	70 - 134	
Endosulfan I	0.133	0.113	84	70 - 136	
Endosulfan II	0.133	0.118	88	72 - 127	
Endosulfan sulfate	0.133	0.112	84	71 - 128	
Endrin	0.133	0.119	89	74 - 129	
Endrin aldehyde	0.133	0.117	88	71 - 129	
Endrin ketone	0.133	0.109	82	68 - 135	
gamma-BHC (Lindane)	0.133	0.111	83	68 - 136	
Heptachlor	0.133	0.109	82	68 - 132	
Heptachlor epoxide	0.133	0.110	82	72 - 131	
Methoxychlor	0.133	0.118	89	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	89		69 - 150		
Tetrachloro-m-xylene	80		74 - 150		

### Lab Control Sample - Batch: 460-524559

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-524559/2-A	Analysis Batch:	460-524991	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-524559	Lab File ID:	P4078387.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	06/04/2018 2333	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	06/02/2018 0915			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.133	0.112	84	67 - 130	
4,4'-DDE	0.133	0.108	81	70 - 127	
4,4'-DDT	0.133	0.111	83	70 - 122	
Aldrin	0.133	0.101	76	66 - 137	
alpha-BHC	0.133	0.104	78	65 - 142	
beta-BHC	0.133	0.103	77	70 - 132	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Lab Control Sample - Batch: 460-524559

**Method: 8081B**  
**Preparation: 3546**

Lab Sample ID:	LCS 460-524559/2-A	Analysis Batch:	460-524991	Instrument ID:	CPESTGC4
Client Matrix:	Solid	Prep Batch:	460-524559	Lab File ID:	P4078387.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	06/04/2018 2333	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	06/02/2018 0915			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
delta-BHC	0.133	0.104	78	65 - 136	
Dieldrin	0.133	0.112	84	70 - 134	
Endosulfan I	0.133	0.112	84	70 - 136	
Endosulfan II	0.133	0.117	88	72 - 127	
Endosulfan sulfate	0.133	0.108	81	71 - 128	
Endrin	0.133	0.116	87	74 - 129	
Endrin aldehyde	0.133	0.112	84	71 - 129	
Endrin ketone	0.133	0.105	79	68 - 135	
gamma-BHC (Lindane)	0.133	0.102	76	68 - 136	
Heptachlor	0.133	0.101	76	68 - 132	
Heptachlor epoxide	0.133	0.108	81	72 - 131	
Methoxychlor	0.133	0.104	78	63 - 135	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	83		69 - 150		
Tetrachloro-m-xylene	77		74 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-524559

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156722-42  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/06/2018 1237  
Prep Date: 06/02/2018 0915  
Leach Date: N/A

Analysis Batch: 460-525493  
Prep Batch: 460-524559  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921772.D  
Initial Weight/Volume: 15.0216 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

MSD Lab Sample ID: 460-156722-42  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/06/2018 1250  
Prep Date: 06/02/2018 0915  
Leach Date: N/A

Analysis Batch: 460-525493  
Prep Batch: 460-524559  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921773.D  
Initial Weight/Volume: 15.0492 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	96	104	67 - 130	7	30		
4,4'-DDE	98	112	70 - 127	14	30		
4,4'-DDT	103	129	70 - 122	23	30		F1
Aldrin	87	92	66 - 137	6	30		
alpha-BHC	88	92	65 - 142	4	30		
beta-BHC	90	93	70 - 132	2	30		
delta-BHC	97	103	65 - 136	6	30		
Dieldrin	95	100	70 - 134	5	30		
Endosulfan I	101	118	70 - 136	15	30		
Endosulfan II	97	101	72 - 127	3	30		
Endosulfan sulfate	90	93	71 - 128	3	30		
Endrin	96	106	74 - 129	10	30		
Endrin aldehyde	97	99	71 - 129	2	30		
Endrin ketone	101	102	68 - 135	0	30		
gamma-BHC (Lindane)	85	91	68 - 136	6	30		
Heptachlor	84	90	68 - 132	6	30		
Heptachlor epoxide	107	137	72 - 131	24	30		F1
Methoxychlor	87	89	63 - 135	1	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	88		89	69 - 150			
Tetrachloro-m-xylene	83		86	74 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-524559

Method: 8081B  
Preparation: 3546

MS Lab Sample ID: 460-156722-42  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/06/2018 1237  
Prep Date: 06/02/2018 0915  
Leach Date: N/A

Analysis Batch: 460-525493  
Prep Batch: 460-524559  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921772.D  
Initial Weight/Volume: 15.0216 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

MSD Lab Sample ID: 460-156722-42  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/06/2018 1250  
Prep Date: 06/02/2018 0915  
Leach Date: N/A

Analysis Batch: 460-525493  
Prep Batch: 460-524559  
Leach Batch: N/A

Instrument ID: CPESTGC5  
Lab File ID: 5F921773.D  
Initial Weight/Volume: 15.0492 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	96	102	67 - 130	6	30		
4,4'-DDE	93	97	70 - 127	4	30		
4,4'-DDT	102	127	70 - 122	21	30		F1
Aldrin	86	90	66 - 137	4	30		
alpha-BHC	86	91	65 - 142	6	30		
beta-BHC	89	92	70 - 132	3	30		
delta-BHC	95	100	65 - 136	4	30		
Dieldrin	90	95	70 - 134	5	30		
Endosulfan I	89	93	70 - 136	4	30		
Endosulfan II	91	97	72 - 127	6	30		
Endosulfan sulfate	90	93	71 - 128	3	30		
Endrin	92	98	74 - 129	6	30		
Endrin aldehyde	92	93	71 - 129	1	30		
Endrin ketone	94	96	68 - 135	1	30		
gamma-BHC (Lindane)	85	89	68 - 136	5	30		
Heptachlor	84	88	68 - 132	5	30		
Heptachlor epoxide	107	133	72 - 131	22	30		F1
Methoxychlor	86	88	63 - 135	2	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	87		86	69 - 150			
Tetrachloro-m-xylene	74		81	74 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-522380

### Method: 8151A

### Preparation: 8151A

Lab Sample ID: MB 460-522380/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/25/2018 1828  
Prep Date: 05/25/2018 0127  
Leach Date: N/A

Analysis Batch: 460-522539  
Prep Batch: 460-522380  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC3  
Lab File ID: ZR151472.D  
Initial Weight/Volume: 30.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	0.033	U	0.0071	0.033
2,4-D	0.033	U	0.012	0.033
Silvex (2,4,5-TP)	0.033	U	0.0035	0.033

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	144	80 - 150

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	139	80 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Lab Control Sample - Batch: 460-522380

Method: 8151A

Preparation: 8151A

Lab Sample ID:	LCS 460-522380/2-A	Analysis Batch:	460-522539	Instrument ID:	CPESTGC3
Client Matrix:	Solid	Prep Batch:	460-522380	Lab File ID:	ZR151473.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0000 g
Analysis Date:	05/25/2018 1842	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/25/2018 0127			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	0.0833	0.0984	118	71 - 141	
2,4-D	0.333	0.340	102	47 - 140	E
Silvex (2,4,5-TP)	0.0833	0.112	135	80 - 150	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	139	80 - 150

### Lab Control Sample - Batch: 460-522380

Method: 8151A

Preparation: 8151A

Lab Sample ID:	LCS 460-522380/2-A	Analysis Batch:	460-522539	Instrument ID:	CPESTGC3
Client Matrix:	Solid	Prep Batch:	460-522380	Lab File ID:	ZR151473.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0000 g
Analysis Date:	05/25/2018 1842	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/25/2018 0127			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	0.0833	0.0979	117	71 - 141	
2,4-D	0.333	0.321	96	47 - 140	
Silvex (2,4,5-TP)	0.0833	0.103	124	80 - 150	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	138	80 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-522380

Method: 8151A  
Preparation: 8151A

MS Lab Sample ID: 460-156504-A-2-B MS	Analysis Batch: 460-522539	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-522380	Lab File ID: ZR151474.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0343 g
Analysis Date: 05/25/2018 1857		Final Weight/Volume: 10 mL
Prep Date: 05/25/2018 0127		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

MSD Lab Sample ID: 460-156504-A-2-C MSD	Analysis Batch: 460-522539	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-522380	Lab File ID: ZR151475.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0294 g
Analysis Date: 05/25/2018 1912		Final Weight/Volume: 10 mL
Prep Date: 05/25/2018 0127		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
2,4,5-T	121	129	71 - 141	6	30	E	
2,4-D	106	100	47 - 140	6	30		
Silvex (2,4,5-TP)	128	133	80 - 150	4	30		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
2,4-Dichlorophenylacetic acid	158	X	155	X	80 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-522380

Method: 8151A  
Preparation: 8151A

MS Lab Sample ID: 460-156504-A-2-B MS	Analysis Batch: 460-522539	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-522380	Lab File ID: ZR151474.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0343 g
Analysis Date: 05/25/2018 1857		Final Weight/Volume: 10 mL
Prep Date: 05/25/2018 0127		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

MSD Lab Sample ID: 460-156504-A-2-C MSD	Analysis Batch: 460-522539	Instrument ID: CPESTGC3
Client Matrix: Solid	Prep Batch: 460-522380	Lab File ID: ZR151475.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.0294 g
Analysis Date: 05/25/2018 1912		Final Weight/Volume: 10 mL
Prep Date: 05/25/2018 0127		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
2,4,5-T	115	122	71 - 141	6	30		
2,4-D	88	88	47 - 140	0	30		
Silvex (2,4,5-TP)	128	128	80 - 150	0	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
2,4-Dichlorophenylacetic acid	138		141	80 - 150			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-522752

### Method: 8151A

### Preparation: 8151A

Lab Sample ID: MB 460-522752/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/29/2018 1230  
Prep Date: 05/26/2018 0033  
Leach Date: N/A

Analysis Batch: 460-523232  
Prep Batch: 460-522752  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: CPESTGC3  
Lab File ID: ZR151501.D  
Initial Weight/Volume: 30.0000 g  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	0.033	U	0.0071	0.033
2,4-D	0.033	U	0.012	0.033
Silvex (2,4,5-TP)	0.033	U	0.0035	0.033

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	132	80 - 150

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	128	80 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Lab Control Sample - Batch: 460-522752

Method: 8151A

Preparation: 8151A

Lab Sample ID:	LCS 460-522752/2-A	Analysis Batch:	460-523232	Instrument ID:	CPESTGC3
Client Matrix:	Solid	Prep Batch:	460-522752	Lab File ID:	ZR151502.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0000 g
Analysis Date:	05/29/2018 1244	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/26/2018 0033			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	0.0833	0.0994	119	71 - 141	
2,4-D	0.333	0.338	101	47 - 140	E
Silvex (2,4,5-TP)	0.0833	0.111	133	80 - 150	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	161 X	80 - 150

### Lab Control Sample - Batch: 460-522752

Method: 8151A

Preparation: 8151A

Lab Sample ID:	LCS 460-522752/2-A	Analysis Batch:	460-523232	Instrument ID:	CPESTGC3
Client Matrix:	Solid	Prep Batch:	460-522752	Lab File ID:	ZR151502.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0000 g
Analysis Date:	05/29/2018 1244	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/26/2018 0033			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	0.0833	0.0993	119	71 - 141	
2,4-D	0.333	0.332	100	47 - 140	
Silvex (2,4,5-TP)	0.0833	0.109	130	80 - 150	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	156 X	80 - 150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-523244

### Method: 6010C

### Preparation: 3050B

Lab Sample ID: MB 460-523244/1-A ^2  
 Client Matrix: Solid  
 Dilution: 2.0  
 Analysis Date: 05/30/2018 1019  
 Prep Date: 05/29/2018 0755  
 Leach Date: N/A

Analysis Batch: 460-523625  
 Prep Batch: 460-523244  
 Leach Batch: N/A  
 Units: mg/Kg

Instrument ID: ICP5  
 Lab File ID: 523534D1.asc  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	4.1	20.0
Antimony	2.0	U	0.24	2.0
Arsenic	1.5	U	0.37	1.5
Barium	20.0	U	1.6	20.0
Beryllium	0.20	U	0.023	0.20
Cadmium	0.40	U	0.060	0.40
Calcium	500	U	51.0	500
Chromium	1.0	U	0.28	1.0
Cobalt	5.0	U	0.57	5.0
Copper	2.5	U	0.57	2.5
Iron	15.0	U	2.7	15.0
Lead	1.0	U	0.30	1.0
Magnesium	500	U	38.6	500
Manganese	1.5	U	0.16	1.5
Nickel	4.0	U	0.38	4.0
Potassium	500	U	26.6	500
Selenium	2.0	U	0.61	2.0
Silver	1.0	U	0.15	1.0
Sodium	500	U	38.5	500
Thallium	2.0	U	0.59	2.0
Vanadium	5.0	U	0.60	5.0
Zinc	3.0	U	0.26	3.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### LCS-Certified Reference Material - Batch: 460-523244

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-523244/2-~~A~~ Analysis Batch: 460-523625  
 Client Matrix: Solid Prep Batch: 460-523244  
 Dilution: 4.0 Leach Batch: N/A  
 Analysis Date: 05/30/2018 1024 Units: mg/Kg  
 Prep Date: 05/29/2018 0755  
 Leach Date: N/A

Instrument ID: ICP5  
 Lab File ID: 523534D1.asc  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	8720	7152	82.0	51.7 - 147.9	
Antimony	94.1	146.1	155.3	0.1 - 206.2	
Arsenic	58.5	53.30	91.1	82.6 - 117.4	
Barium	183	172.4	94.2	82.0 - 118.6	
Beryllium	59.7	53.10	88.9	82.6 - 117.6	
Cadmium	249	231.0	92.8	82.3 - 118.1	
Calcium	4600	4124	89.7	81.1 - 118.9	
Chromium	64.9	64.92	100.0	81.4 - 118.6	
Cobalt	45.0	43.08	95.7	83.6 - 116.4	
Copper	113	103.0	91.2	82.7 - 116.8	
Iron	13600	16420	120.7	58.8 - 141.2	
Lead	161	163.1	101.3	81.4 - 118.6	
Magnesium	2310	1999	86.5	75.8 - 124.2	
Manganese	219	255.4	116.6	81.7 - 118.7	
Nickel	147	144.5	98.3	82.3 - 118.4	
Potassium	2030	1651	81.3	70.0 - 130.0	
Selenium	145	131.7	90.8	77.9 - 121.4	
Silver	51.0	45.94	90.1	78.6 - 121.4	
Sodium	2430	2062	84.9	73.3 - 126.3	
Thallium	188	189.8	100.9	79.8 - 119.7	
Vanadium	125	124.5	99.6	78.3 - 121.6	
Zinc	121	117.1	96.8	80.2 - 119.0	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-523536

### Method: 6010C

### Preparation: 3050B

Lab Sample ID: MB 460-523536/1-A ^2  
Client Matrix: Solid  
Dilution: 2.0  
Analysis Date: 05/30/2018 1747  
Prep Date: 05/30/2018 0736  
Leach Date: N/A

Analysis Batch: 460-523625  
Prep Batch: 460-523536  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP5  
Lab File ID: 523534D1.asc  
Initial Weight/Volume: 1.00 g  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	4.1	20.0
Antimony	2.0	U	0.24	2.0
Arsenic	1.5	U	0.37	1.5
Barium	20.0	U	1.6	20.0
Beryllium	0.20	U	0.023	0.20
Cadmium	0.40	U	0.060	0.40
Calcium	500	U	51.0	500
Chromium	1.0	U	0.28	1.0
Cobalt	5.0	U	0.57	5.0
Copper	2.5	U	0.57	2.5
Iron	15.0	U	2.7	15.0
Lead	1.0	U	0.30	1.0
Magnesium	500	U	38.6	500
Manganese	1.5	U	0.16	1.5
Nickel	4.0	U	0.38	4.0
Potassium	500	U	26.6	500
Selenium	2.0	U	0.61	2.0
Silver	1.0	U	0.15	1.0
Sodium	500	U	38.5	500
Thallium	2.0	U	0.59	2.0
Vanadium	5.0	U	0.60	5.0
Zinc	3.0	U	0.26	3.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### LCS-Certified Reference Material - Batch: 460-523536

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-523536/2-~~A~~ Analysis Batch: 460-523625  
 Client Matrix: Solid Prep Batch: 460-523536  
 Dilution: 4.0 Leach Batch: N/A  
 Analysis Date: 05/30/2018 1751 Units: mg/Kg  
 Prep Date: 05/30/2018 0736  
 Leach Date: N/A

Instrument ID: ICP5  
 Lab File ID: 523534D1.asc  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	8720	7732	88.7	51.7 - 147.9	
Antimony	94.1	167.7	178.2	0.1 - 206.2	
Arsenic	58.5	59.70	102.1	82.6 - 117.4	
Barium	183	197.9	108.2	82.0 - 118.6	
Beryllium	59.7	58.84	98.6	82.6 - 117.6	
Cadmium	249	259.4	104.2	82.3 - 118.1	
Calcium	4600	4558	99.1	81.1 - 118.9	
Chromium	64.9	73.02	112.5	81.4 - 118.6	
Cobalt	45.0	49.82	110.7	83.6 - 116.4	
Copper	113	117.5	104.0	82.7 - 116.8	
Iron	13600	17870	131.4	58.8 - 141.2	
Lead	161	183.8	114.2	81.4 - 118.6	
Magnesium	2310	2244	97.1	75.8 - 124.2	
Manganese	219	245.6	112.1	81.7 - 118.7	
Nickel	147	165.9	112.9	82.3 - 118.4	
Potassium	2030	1814	89.4	70.0 - 130.0	
Selenium	145	152.4	105.1	77.9 - 121.4	
Silver	51.0	51.38	100.7	78.6 - 121.4	
Sodium	2430	2358	97.0	73.3 - 126.3	
Thallium	188	219.6	116.8	79.8 - 119.7	
Vanadium	125	140.3	112.2	78.3 - 121.6	
Zinc	121	129.4	106.9	80.2 - 119.0	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Matrix Spike - Batch: 460-523536

Method: 6010C

Preparation: 3050B

Lab Sample ID:	460-156722-16	Analysis Batch:	460-523625	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-523536	Lab File ID:	523534D1.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/30/2018 1953	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 0736				
Leach Date:	N/A				

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	3780		214	4968	556	75 - 125	4
Antimony	4.3	U	53.5	49.66	93	75 - 125	
Arsenic	0.83	J	214	202.6	94	75 - 125	
Barium	5.1	J	214	234.0	107	75 - 125	
Beryllium	0.10	J	5.35	5.27	97	75 - 125	
Cadmium	0.86	U	5.35	5.44	102	75 - 125	
Calcium	262	J	2140	2449	102	75 - 125	
Chromium	5.7		21.4	29.43	111	75 - 125	
Cobalt	1.5	J	53.5	59.64	109	75 - 125	
Copper	3.4	J	26.7	30.73	102	75 - 125	
Iron	4720		107	6392	1566	75 - 125	4
Lead	2.7		53.5	60.18	108	75 - 125	
Magnesium	210	J	2140	2350	100	75 - 125	
Manganese	38.7		53.5	97.28	110	75 - 125	
Nickel	3.1	J	53.5	60.35	107	75 - 125	
Potassium	1070	U	2140	2046	96	75 - 125	
Selenium	4.3	U	214	208.4	97	75 - 125	
Silver	2.1	U	5.35	4.92	92	75 - 125	
Sodium	1070	U	2140	2052	96	75 - 125	
Thallium	4.3	U	214	239.7	112	75 - 125	
Vanadium	7.0	J	53.5	64.67	108	75 - 125	
Zinc	10.4		53.5	70.53	112	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-523536**

**Method: 6010C**  
**Preparation: 3050B**

Lab Sample ID: 460-156722-16  
Client Matrix: Solid  
Dilution: 4.0  
Analysis Date: 05/30/2018 1803  
Prep Date: 05/30/2018 0736  
Leach Date: N/A

Analysis Batch: 460-523625  
Prep Batch: 460-523536  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP5  
Lab File ID: 523534D1.asc  
Initial Weight/Volume: 1.00 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	3780		4668	21	20	F3
Antimony	4.3	U	4.3	NC	20	U
Arsenic	0.83	J	0.846	2	20	J
Barium	5.1	J	6.42	23	20	J F5
Beryllium	0.10	J	0.141	32	20	J F5
Cadmium	0.86	U	0.86	NC	20	U
Calcium	262	J	318.0	19	20	J
Chromium	5.7		6.67	16	20	
Cobalt	1.5	J	1.90	26	20	J F5
Copper	3.4	J	4.16	19	20	J
Iron	4720		5564	16	20	
Lead	2.7		3.39	24	20	F5
Magnesium	210	J	248.5	17	20	J
Manganese	38.7		43.58	12	20	
Nickel	3.1	J	3.95	24	20	J F5
Potassium	1070	U	71.36	NC	20	J
Selenium	4.3	U	4.3	NC	20	U
Silver	2.1	U	2.1	NC	20	U
Sodium	1070	U	1070	NC	20	U
Thallium	4.3	U	4.3	NC	20	U
Vanadium	7.0	J	8.41	18	20	J
Zinc	10.4		11.91	13	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-523537

Method: 6010C

Preparation: 3050B

Lab Sample ID: MB 460-523537/1-A ^2  
Client Matrix: Solid  
Dilution: 2.0  
Analysis Date: 05/30/2018 2020  
Prep Date: 05/30/2018 0740  
Leach Date: N/A

Analysis Batch: 460-523625  
Prep Batch: 460-523537  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP5  
Lab File ID: 523534D1.asc  
Initial Weight/Volume: 1.00 g  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	4.1	20.0
Antimony	2.0	U	0.24	2.0
Arsenic	1.5	U	0.37	1.5
Barium	20.0	U	1.6	20.0
Beryllium	0.20	U	0.023	0.20
Cadmium	0.40	U	0.060	0.40
Calcium	500	U	51.0	500
Chromium	1.0	U	0.28	1.0
Cobalt	5.0	U	0.57	5.0
Copper	2.5	U	0.57	2.5
Iron	15.0	U	2.7	15.0
Lead	1.0	U	0.30	1.0
Magnesium	500	U	38.6	500
Manganese	1.5	U	0.16	1.5
Nickel	4.0	U	0.38	4.0
Potassium	500	U	26.6	500
Selenium	2.0	U	0.61	2.0
Silver	1.0	U	0.15	1.0
Sodium	500	U	38.5	500
Thallium	2.0	U	0.59	2.0
Vanadium	5.0	U	0.60	5.0
Zinc	3.0	U	0.26	3.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### LCS-Certified Reference Material - Batch: 460-523537

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-523537/2-~~A~~ Analysis Batch: 460-523625  
 Client Matrix: Solid Prep Batch: 460-523537  
 Dilution: 4.0 Leach Batch: N/A  
 Analysis Date: 05/30/2018 2004 Units: mg/Kg  
 Prep Date: 05/30/2018 0740  
 Leach Date: N/A

Instrument ID: ICP5  
 Lab File ID: 523534D1.asc  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	8720	7038	80.7	51.7 - 147.9	
Antimony	94.1	151.9	161.4	0.1 - 206.2	
Arsenic	58.5	54.36	92.9	82.6 - 117.4	
Barium	183	181.2	99.0	82.0 - 118.6	
Beryllium	59.7	54.00	90.5	82.6 - 117.6	
Cadmium	249	235.4	94.5	82.3 - 118.1	
Calcium	4600	4236	92.1	81.1 - 118.9	
Chromium	64.9	66.26	102.1	81.4 - 118.6	
Cobalt	45.0	45.24	100.5	83.6 - 116.4	
Copper	113	105.0	92.9	82.7 - 116.8	
Iron	13600	16410	120.7	58.8 - 141.2	
Lead	161	166.9	103.7	81.4 - 118.6	
Magnesium	2310	2062	89.3	75.8 - 124.2	
Manganese	219	223.8	102.2	81.7 - 118.7	
Nickel	147	150.3	102.3	82.3 - 118.4	
Potassium	2030	1649	81.2	70.0 - 130.0	
Selenium	145	138.8	95.7	77.9 - 121.4	
Silver	51.0	47.18	92.5	78.6 - 121.4	
Sodium	2430	2118	87.2	73.3 - 126.3	
Thallium	188	198.7	105.7	79.8 - 119.7	
Vanadium	125	128.5	102.8	78.3 - 121.6	
Zinc	121	118.9	98.2	80.2 - 119.0	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-523537

Method: 6010C  
Preparation: 3050B

MS Lab Sample ID: 460-155425-A-1-X MS ^4  
Client Matrix: Solid  
Dilution: 4.0  
Analysis Date: 05/30/2018 2028  
Prep Date: 05/30/2018 0740  
Leach Date: N/A

Instrument ID: ICP5  
Lab File ID: 523534D1.asc  
Initial Weight/Volume: 1.01 g  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 460-155425-A-1-Y MSD ^4  
Client Matrix: Solid  
Dilution: 4.0  
Analysis Date: 05/30/2018 2024  
Prep Date: 05/30/2018 0740  
Leach Date: N/A

Instrument ID: ICP5  
Lab File ID: 523534D1.asc  
Initial Weight/Volume: 1.01 g  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aluminum	-1	6	75 - 125	0	20	4	4
Antimony	93	94	75 - 125	2	20		
Arsenic	95	97	75 - 125	2	20		
Barium	125	119	75 - 125	3	20		
Beryllium	96	97	75 - 125	1	20		
Cadmium	105	106	75 - 125	1	20		
Calcium	111	109	75 - 125	1	20		
Chromium	108	108	75 - 125	0	20		
Cobalt	104	105	75 - 125	1	20		
Copper	109	105	75 - 125	1	20		
Iron	-240	-330	75 - 125	1	20	4	4
Lead	98	85	75 - 125	1	20	4	4
Magnesium	93	95	75 - 125	1	20		
Manganese	-56	-52	75 - 125	1	20	4	4
Nickel	104	106	75 - 125	1	20		
Potassium	91	92	75 - 125	1	20		
Selenium	97	100	75 - 125	2	20		
Silver	94	94	75 - 125	0	20		
Sodium	97	97	75 - 125	1	20		
Thallium	110	112	75 - 125	1	20		
Vanadium	101	103	75 - 125	1	20		
Zinc	111	102	75 - 125	1	20	4	4



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-523537**

**Method: 6010C**  
**Preparation: 3050B**

Lab Sample ID:	460-155425-C-1-K DU ^4	Analysis Batch:	460-523625	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-523537	Lab File ID:	523534D1.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	05/30/2018 2031	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 0740				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Aluminum	8340	8416	0.9	20	
Antimony	4.7 U	4.7	NC	20	U
Arsenic	8.6	8.68	1	20	
Barium	188	190.3	1	20	
Beryllium	0.58	0.563	3	20	
Cadmium	0.63 J	0.581	7	20	J
Calcium	2070	2075	0.2	20	
Chromium	23.1	23.37	1	20	
Cobalt	7.1 J	7.05	1	20	J
Copper	67.9	68.84	1	20	
Iron	20200	20510	2	20	
Lead	650	658.2	1	20	
Magnesium	2000	2035	2	20	
Manganese	411	406.0	1	20	
Nickel	25.4	25.71	1	20	
Potassium	698 J	719.3	3	20	J
Selenium	4.7 U	4.7	NC	20	U
Silver	2.4 U	2.4	NC	20	U
Sodium	165 J	165.8	0.7	20	J
Thallium	4.7 U	4.7	NC	20	U
Vanadium	33.6	33.97	1	20	
Zinc	420	430.1	2	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-524795

Method: 6010C

Preparation: 3050B

Lab Sample ID: MB 460-524795/1-A ^2  
Client Matrix: Solid  
Dilution: 2.0  
Analysis Date: 06/06/2018 1633  
Prep Date: 06/03/2018 1940  
Leach Date: N/A

Analysis Batch: 460-525595  
Prep Batch: 460-524795  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP5  
Lab File ID: 525552D1.asc  
Initial Weight/Volume: 1.00 g  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	4.1	20.0
Antimony	2.0	U	0.24	2.0
Arsenic	1.5	U	0.37	1.5
Barium	20.0	U	1.6	20.0
Beryllium	0.20	U	0.023	0.20
Cadmium	0.40	U	0.060	0.40
Calcium	500	U	51.0	500
Chromium	1.0	U	0.28	1.0
Cobalt	5.0	U	0.57	5.0
Copper	2.5	U	0.57	2.5
Iron	15.0	U	2.7	15.0
Lead	1.0	U	0.30	1.0
Magnesium	500	U	38.6	500
Manganese	1.5	U	0.16	1.5
Nickel	4.0	U	0.38	4.0
Potassium	500	U	26.6	500
Selenium	2.0	U	0.61	2.0
Silver	1.0	U	0.15	1.0
Sodium	500	U	38.5	500
Thallium	2.0	U	0.59	2.0
Vanadium	5.0	U	0.60	5.0
Zinc	3.0	U	0.26	3.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### LCS-Certified Reference Material - Batch: 460-524795

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-524795/2-~~A~~ Analysis Batch: 460-525595  
 Client Matrix: Solid Prep Batch: 460-524795  
 Dilution: 4.0 Leach Batch: N/A  
 Analysis Date: 06/06/2018 1637 Units: mg/Kg  
 Prep Date: 06/03/2018 1940  
 Leach Date: N/A

Instrument ID: ICP5  
 Lab File ID: 525552D1.asc  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	8720	7528	86.3	51.7 - 147.9	
Antimony	94.1	66.18	70.3	0.1 - 206.2	
Arsenic	58.5	60.20	102.9	82.6 - 117.4	
Barium	183	201.8	110.3	82.0 - 118.6	
Beryllium	59.7	61.78	103.5	82.6 - 117.6	
Cadmium	249	264.4	106.2	82.3 - 118.1	
Calcium	4600	4748	103.2	81.1 - 118.9	
Chromium	64.9	69.54	107.1	81.4 - 118.6	
Cobalt	45.0	49.86	110.8	83.6 - 116.4	
Copper	113	118.7	105.0	82.7 - 116.8	
Iron	13600	13880	102.1	58.8 - 141.2	
Lead	161	188.4	117.0	81.4 - 118.6	
Magnesium	2310	2202	95.3	75.8 - 124.2	
Manganese	219	238.8	109.0	81.7 - 118.7	
Nickel	147	166.8	113.5	82.3 - 118.4	
Potassium	2030	1763	86.8	70.0 - 130.0	
Selenium	145	154.3	106.4	77.9 - 121.4	
Silver	51.0	52.82	103.6	78.6 - 121.4	
Sodium	2430	2376	97.8	73.3 - 126.3	
Thallium	188	208.4	110.9	79.8 - 119.7	
Vanadium	125	126.4	101.1	78.3 - 121.6	
Zinc	121	133.5	110.4	80.2 - 119.0	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Matrix Spike - Batch: 460-524795

Method: 6010C

Preparation: 3050B

Lab Sample ID: 460-156722-53  
 Client Matrix: Solid  
 Dilution: 4.0  
 Analysis Date: 06/06/2018 1644  
 Prep Date: 06/03/2018 1940  
 Leach Date: N/A

Analysis Batch: 460-525595  
 Prep Batch: 460-524795  
 Leach Batch: N/A  
 Units: mg/Kg

Instrument ID: ICP5  
 Lab File ID: 525552D1.asc  
 Initial Weight/Volume: 1.31 g  
 Final Weight/Volume: 50 mL

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	3660		161	4046	238	75 - 125	4
Antimony	3.2	U	40.2	26.69	66	75 - 125	F1
Arsenic	1.4	J	161	160.9	99	75 - 125	
Barium	9.3	J	161	189.7	112	75 - 125	
Beryllium	0.14	J	4.02	4.28	103	75 - 125	
Cadmium	0.63	U	4.02	4.35	108	75 - 125	
Calcium	521	J	1610	2217	105	75 - 125	
Chromium	11.3		16.1	31.67	127	75 - 125	F1
Cobalt	3.9	J	40.2	48.95	112	75 - 125	
Copper	4.1		20.1	25.35	105	75 - 125	
Iron	5350		80.4	5506	192	75 - 125	4
Lead	8.7		40.2	53.05	110	75 - 125	
Magnesium	185	J	1610	1869	105	75 - 125	
Manganese	315		40.2	337.0	55	75 - 125	4
Nickel	4.4	J	40.2	48.95	111	75 - 125	
Potassium	52.0	J	1610	1622	98	75 - 125	
Selenium	3.2	U	161	164.4	102	75 - 125	
Silver	1.6	U	4.02	4.02	100	75 - 125	
Sodium	792	U	1610	1631	101	75 - 125	
Thallium	3.2	U	161	173.7	108	75 - 125	
Vanadium	7.4	J	40.2	50.32	107	75 - 125	
Zinc	18.8		40.2	66.47	119	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-524795**

**Method: 6010C**  
**Preparation: 3050B**

Lab Sample ID: 460-156722-53  
Client Matrix: Solid  
Dilution: 4.0  
Analysis Date: 06/06/2018 1648  
Prep Date: 06/03/2018 1940  
Leach Date: N/A

Analysis Batch: 460-525595  
Prep Batch: 460-524795  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: ICP5  
Lab File ID: 525552D1.asc  
Initial Weight/Volume: 1.36 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	3660		3338	9	20	
Antimony	3.2	U	3.1	NC	20	U
Arsenic	1.4	J	1.37	0.6	20	J
Barium	9.3	J	8.22	13	20	J
Beryllium	0.14	J	0.114	18	20	J
Cadmium	0.63	U	0.62	NC	20	U
Calcium	521	J	447.2	15	20	J
Chromium	11.3		11.69	3	20	
Cobalt	3.9	J	3.54	11	20	J
Copper	4.1		3.79	9	20	J
Iron	5350		4838	10	20	
Lead	8.7		7.17	19	20	
Magnesium	185	J	180.2	3	20	J
Manganese	315		271.2	15	20	
Nickel	4.4	J	4.06	8	20	J
Potassium	52.0	J	51.71	0.6	20	J
Selenium	3.2	U	3.1	NC	20	U
Silver	1.6	U	1.5	NC	20	U
Sodium	792	U	775	NC	20	U
Thallium	3.2	U	3.1	NC	20	U
Vanadium	7.4	J	6.92	6	20	J
Zinc	18.8		16.77	11	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-523508

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	MB 460-523508/1-A	Analysis Batch:	460-523623	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-523508	Lab File ID:	523480HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/30/2018 1031	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 0528				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-523508

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	LCSSRM 460-523508/2-A	Analysis Batch:	460-523623	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-523508	Lab File ID:	523480HG1.CSV
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/30/2018 1033	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 0528				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	11.70	99.2	70.3 - 129.7	

### Matrix Spike - Batch: 460-523508

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	460-156904-G-2-J MS	Analysis Batch:	460-523623	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-523508	Lab File ID:	523480HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.67 g
Analysis Date:	05/30/2018 1043	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 0528				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.019 U	0.0939	0.0982	105	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-523508**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-156904-G-2-I DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/30/2018 1037  
Prep Date: 05/30/2018 0528  
Leach Date: N/A

Analysis Batch: 460-523623  
Prep Batch: 460-523508  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 523480HG1.CSV  
Initial Weight/Volume: 0.67 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.019	U	0.019	NC	20	U



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-523839

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	MB 460-523839/10-A	Analysis Batch:	460-524001	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-523839	Lab File ID:	523839HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/31/2018 0741	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/31/2018 0359				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-523839

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	LCSSRM 460-523839/11-	Analysis Batch:	460-524001	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-523839	Lab File ID:	523839HG1.CSV
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/31/2018 0743	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/31/2018 0359				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	12.41	105.2	70.3 - 129.7	

### Matrix Spike - Batch: 460-523839

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	460-156398-A-1-X MS	Analysis Batch:	460-524001	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-523839	Lab File ID:	523839HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.67 g
Analysis Date:	05/31/2018 0749	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/31/2018 0359				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.012 J	0.0807	0.0768	81	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-523839**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-156398-A-1-W DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/31/2018 0747  
Prep Date: 05/31/2018 0359  
Leach Date: N/A

Analysis Batch: 460-524001  
Prep Batch: 460-523839  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 523839HG1.CSV  
Initial Weight/Volume: 0.67 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.012	J	0.0145	22	20	J F5



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-523847

Method: 7471B

Preparation: 7471B

Lab Sample ID: MB 460-523847/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/31/2018 0846  
Prep Date: 05/31/2018 0434  
Leach Date: N/A

Analysis Batch: 460-524001  
Prep Batch: 460-523847  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 523839HG1.CSV  
Initial Weight/Volume: 0.60 g  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-523847

Method: 7471B

Preparation: 7471B

Lab Sample ID: LCSSRM 460-523847/2-~~A~~  
Client Matrix: Solid  
Dilution: 40  
Analysis Date: 05/31/2018 0847  
Prep Date: 05/31/2018 0434  
Leach Date: N/A

Analysis Batch: 460-524001  
Prep Batch: 460-523847  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 523839HG1.CSV  
Initial Weight/Volume: 0.60 g  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	11.57	98.1	70.3 - 129.7	

### Matrix Spike - Batch: 460-523847

Method: 7471B

Preparation: 7471B

Lab Sample ID: 460-156902-E-3-N MS  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/31/2018 0853  
Prep Date: 05/31/2018 0434  
Leach Date: N/A

Analysis Batch: 460-524001  
Prep Batch: 460-523847  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 523839HG1.CSV  
Initial Weight/Volume: 0.66 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.017 U	0.0844	0.0901	107	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-523847**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-156902-A-3-D DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/31/2018 0851  
Prep Date: 05/31/2018 0434  
Leach Date: N/A

Analysis Batch: 460-524001  
Prep Batch: 460-523847  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 523839HG1.CSV  
Initial Weight/Volume: 0.66 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.017	U	0.017	NC	20	U



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-524830

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	MB 460-524830/1-A	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524830	Lab File ID:	524808HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	06/04/2018 0923	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0509				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-524830

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	LCSSRM 460-524830/2-A	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524830	Lab File ID:	524808HG1.CSV
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	06/04/2018 0925	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0509				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	10.65	90.2	70.3 - 129.7	

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-524830

**Method: 7471B**  
**Preparation: 7471B**

MS Lab Sample ID:	460-157003-A-2-V MS	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524830	Lab File ID:	524808HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.67 g
Analysis Date:	06/04/2018 0931			Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0509				
Leach Date:	N/A				

MSD Lab Sample ID:	460-157003-A-2-W MSD	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524830	Lab File ID:	524808HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.67 g
Analysis Date:	06/04/2018 0934			Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0509				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	106	129	75 - 125	8	20		F1



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-524830**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-157003-A-2-U DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 0929  
Prep Date: 06/04/2018 0509  
Leach Date: N/A

Analysis Batch: 460-524920  
Prep Batch: 460-524830  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 524808HG1.CSV  
Initial Weight/Volume: 0.67 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.19	0.182	5	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Method Blank - Batch: 460-524835

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	MB 460-524835/1-A	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524835	Lab File ID:	524808HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	06/04/2018 1030	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0548				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.017	U	0.010	0.017

### LCS-Certified Reference Material - Batch: 460-524835

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID:	LCSSRM 460-524835/2-A	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524835	Lab File ID:	524808HG1.CSV
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	06/04/2018 1033	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0548				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	11.8	10.85	91.9	70.3 - 129.7	

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-524835

**Method: 7471B**  
**Preparation: 7471B**

MS Lab Sample ID:	460-157001-B-1-M MS	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524835	Lab File ID:	524808HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.61 g
Analysis Date:	06/04/2018 1043			Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0548				
Leach Date:	N/A				

MSD Lab Sample ID:	460-157001-B-1-N MSD	Analysis Batch:	460-524920	Instrument ID:	LEEMAN7
Client Matrix:	Solid	Prep Batch:	460-524835	Lab File ID:	524808HG1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.61 g
Analysis Date:	06/04/2018 1045			Final Weight/Volume:	50 mL
Prep Date:	06/04/2018 0548				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	109	112	75 - 125	2	20		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-524835**

**Method: 7471B**

**Preparation: 7471B**

Lab Sample ID: 460-157001-A-1-X DU  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 06/04/2018 1041  
Prep Date: 06/04/2018 0548  
Leach Date: N/A

Analysis Batch: 460-524920  
Prep Batch: 460-524835  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: LEEMAN7  
Lab File ID: 524808HG1.CSV  
Initial Weight/Volume: 0.61 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.056	0.0642	13	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-522172**

**Method: Moisture  
Preparation: N/A**

Lab Sample ID: 460-156722-5  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 1128  
Prep Date: N/A  
Leach Date: N/A

Analysis Batch: 460-522172  
Prep Batch: N/A  
Leach Batch: N/A  
Units: %

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	14.7	16.1	10	20	
Percent Solids	85.3	83.9	2	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-522180**

**Method: Moisture  
Preparation: N/A**

Lab Sample ID: 460-156722-10  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 05/24/2018 1144  
Prep Date: N/A  
Leach Date: N/A

Analysis Batch: 460-522180  
Prep Batch: N/A  
Leach Batch: N/A  
Units: %

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	25.0	25.5	2	20	
Percent Solids	75.0	74.5	0.6	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-522486**

**Method: Moisture  
Preparation: N/A**

Lab Sample ID:	460-156894-A-5 DU	Analysis Batch:	460-522486	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/25/2018 0816	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	47.1	45.1	4	20	
Percent Solids	52.9	54.9	4	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

### Duplicate - Batch: 460-522511

**Method: Moisture**  
**Preparation: N/A**

Lab Sample ID:	460-156722-37	Analysis Batch:	460-522511	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/25/2018 0919	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	11.9	11.5	3	20	
Percent Solids	88.1	88.5	0.5	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-522518**

**Method: Moisture  
Preparation: N/A**

Lab Sample ID:	460-156895-A-16 DU	Analysis Batch:	460-522518	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/25/2018 0942	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	15.8	15.6	1	20	
Percent Solids	84.2	84.4	0.2	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-522536**

**Method: Moisture  
Preparation: N/A**

Lab Sample ID:	460-156398-A-1 DU	Analysis Batch:	460-522536	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/25/2018 1133	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	7.5	8.0	7	20	
Percent Solids	92.5	92.0	0.6	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156722-1

**Duplicate - Batch: 460-525530**

**Method: Moisture  
Preparation: N/A**

Lab Sample ID:	460-157504-A-2 DU	Analysis Batch:	460-525530	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	06/06/2018 0908	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	19.9	20.9	5	20	
Percent Solids	80.1	79.1	1	20	



# TestAmerica



460-156722 Chain of Custody

NYSC  
460501

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

## Y / ANALYSIS REQUEST

Page 1 of 8

Name (for report and invoice) <b>Jennifer Lewis</b>		Samplers Name (Printed) <b>Nick Iannucci</b>		Site/Project Identification <b>RSL1801</b>	
Company <b>PW Grosser Consulting</b>		P.O. #		State (Location of site): NJ <input type="checkbox"/> NY <input checked="" type="checkbox"/> Other: <input type="checkbox"/>	
Address <b>630 Johnson Ave Ste 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 5 days		Regulatory Program:	
City <b>Bohemia</b>	State <b>NY</b>	Job No: <b>166722</b>		LAB USE ONLY Project No:	
Phone <b>(631) 589-6353</b>	Fax	Sample Numbers			

Sample Identification	Date	Time	Matrix	No. of Cont.	ANALYSIS REQUESTED (ENTER % BELOW TO INDICATE REQUEST)	Sample Numbers
55.0225(0-3")	5/22/18	755	S	1	Pest <input checked="" type="checkbox"/> Herb <input checked="" type="checkbox"/> TAL Metals <input checked="" type="checkbox"/> Mercury <input checked="" type="checkbox"/>	1
55.0226(0-3")		820		1		2
55.0227(0-3")		840		1		3
55.0227(18"-24")		845		1		4
55.0228(0-3")		855		1		5
55.0229(0-3")		910		1		6
55.0300(0-3")		925		1		7
55.0310(0-3")		935		1		8
55.0311(18"-24")		940		1		9
55.0320(0-3")		1000		1		10

Preservation Used: 1 = ICE, 2 = HCl, 3 = H<sub>2</sub>SO<sub>4</sub>, 4 = HNO<sub>3</sub>, 5 = NaOH  
Soil: ☐ Water: ☐  
6 = Other ☐ 7 = Other ☐

### Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
<i>[Signature]</i>	PWGC	5/22/18 / 600	<i>[Signature]</i>	PTA
2) <i>[Signature]</i>	PTA	5/22/18 / 1848	2) <i>[Signature]</i>	PTA
Relinquished by	Company	Date / Time	Received by	Company
3) <i>[Signature]</i>	PTA	5/22/18 / 1848	3) <i>[Signature]</i>	PTA
Relinquished by	Company	Date / Time	Received by	Company
4) <i>[Signature]</i>	PTA	5/22/18 / 1848	4) <i>[Signature]</i>	PTA

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NU312), North Carolina (No. 578)

TAL-0016 (0715)



# TestAmerica

NYSC  
460501

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 2 of 8

Name (for report and invoice) <b>Jennifer Lewis</b>		Samplers Name (Printed) <b>Nick Janucci</b>		Site/Project Identification <b>RSL1801</b>	
Company <b>PWSC</b>		P. O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other:	
Address <b>630 Johnson Ave Ste. 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 5 days		ANALYSIS REQUESTED (ENTER X: BELOW TO INDICATE REQUEST)	
City <b>Bohemia</b> State <b>NY</b>		Phone <b>(631) 589-6353</b> Fax		<input checked="" type="checkbox"/> Pest <input checked="" type="checkbox"/> Herb <input checked="" type="checkbox"/> TAL Metals <input checked="" type="checkbox"/> Mercury	
Sample Identification		Date	Time	Matrix	No. of Cont.
55.033 (0-3")	5/22/18	10:35	3	1	X
55.034 (0-3")		10:35			X
55.034 (18"-24")		10:40			X
55.035 (0-3")		10:50			X
55.036 (0-3")		11:05			X
55.036 (18"-24")		11:10			X
55.037 (0-3")		11:25			X
55.038 (0-3")		11:40			X
55.038 (18"-24")		11:45			X
55.039 (0-3")		11:55			X

Preservation Used: 1 = ICE, 2 = HCl, 3 = H<sub>2</sub>SO<sub>4</sub>, 4 = HNO<sub>3</sub>, 5 = NaOH  
6 = Other \_\_\_\_\_, 7 = Other \_\_\_\_\_

Soil: \_\_\_\_\_  
Water: \_\_\_\_\_

### Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by <b>[Signature]</b>	Company <b>PWSC</b>	Date / Time <b>5/22/18 1600</b>	Received by <b>[Signature]</b>	Company <b>YTA</b>
Relinquished by <b>[Signature]</b>	Company <b>YTA</b>	Date / Time <b>5/30/18 1840</b>	Received by <b>[Signature]</b>	Company <b>YTA</b>
Relinquished by <b>[Signature]</b>	Company <b>F. H.</b>	Date / Time <b>11/12/2100</b>	Received by <b>[Signature]</b>	Company <b>YTA</b>
Relinquished by <b>[Signature]</b>	Company <b>[Signature]</b>	Date / Time <b>[Signature]</b>	Received by <b>[Signature]</b>	Company <b>[Signature]</b>

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)



# TestAmerica

NYSC  
460501

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 3 of 8

Name (for report and invoice) <b>Jennifer Lewis</b>		Samplers Name (Printed) <b>Nyle Tannucci</b>		Site/Project Identification <b>RS41801</b>	
Company <b>PWGL</b>		P. O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other:	
Address <b>630 Johnson Ave Ste 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> <b>5 day</b>		ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)	
City <b>Bohemia</b>		State <b>NY</b>		<input checked="" type="checkbox"/> Pest <input checked="" type="checkbox"/> Herb <input checked="" type="checkbox"/> TAL Metals <input checked="" type="checkbox"/> Mercury	
Phone <b>(631) 589-6353</b>		Fax		LAB USE ONLY	
Sample Identification		Date	Time	Matrix	No. of Cont.
<b>55.033(10-3")</b>	<b>5/22/10</b>	<b>10:15</b>	<b>S</b>	<b>1</b>	<b>21</b>
<b>55.034(10-3")</b>		<b>10:35</b>			<b>22</b>
<b>55.034(18"-24")</b>		<b>10:40</b>			<b>23</b>
<b>55.035(10-3")</b>		<b>10:50</b>			<b>24</b>
<b>55.036(10-3")</b>		<b>11:05</b>			<b>25</b>
<b>55.036(18"-24")</b>		<b>11:10</b>			<b>26</b>
<b>55.037(10-3")</b>		<b>11:25</b>			<b>27</b>
<b>55.038(10-3")</b>		<b>11:40</b>			<b>28</b>
<b>55.038(18"-24")</b>		<b>11:45</b>			<b>29</b>
<b>55.039(10-3")</b>		<b>11:55</b>			<b>30</b>
Preservation Used: 1 = ICE, 2 = HCl, 3 = H <sub>2</sub> SO <sub>4</sub> , 4 = HNO <sub>3</sub> , 5 = NaOH 6 = Other _____, 7 = Other _____					
Soil: _____ Water: _____					

### Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by 	Company <b>PWGL</b>	Date / Time <b>5/22/10 1:00</b>	Received by 	Company <b>NYSC</b>
Relinquished by 	Company <b>NYSC</b>	Date / Time <b>5/22/10 1:00</b>	Received by 	Company <b>NYSC</b>
Relinquished by 	Company <b>NYSC</b>	Date / Time <b>5/22/10 1:00</b>	Received by 	Company <b>NYSC</b>
Relinquished by 	Company <b>NYSC</b>	Date / Time <b>5/22/10 1:00</b>	Received by 	Company <b>NYSC</b>



# TestAmerica

NYSC  
460501

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 4 of 8

Name (for report and invoice) <b>Jennifer Lewis</b>		Sampler's Name (Printed) <b>Nick Iannucci</b>		Site/Project Identification <b>RSL1801</b>	
Company <b>PWGL</b>		P.O. #		State (Location of site): NJ <input type="checkbox"/> NY <input checked="" type="checkbox"/> Other:	
Address <b>630 Johnson Ave Ste 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 5 days		ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)	
City <b>Bohemia</b> State <b>NY</b>		Phone <b>(631) 589-6353</b> Fax		Regulatory Program:	
Sample Identification		Date	Time	Matrix	No. of Cont.
<b>SS-040(0-3")</b>	<b>5/22/18</b>	<b>12:45</b>	<b>5</b>	<b>1</b>	<b>1</b>
<b>SS-041(0-3")</b>		<b>13:15</b>			
<b>SS-041(18"-24")</b>		<b>13:30</b>			
<b>SS-042(0-3")</b>		<b>13:30</b>			
<b>SS-043(0-3")</b>		<b>13:40</b>			
<b>SS-043(18"-24")</b>		<b>13:45</b>			
<b>SS-044(0-3")</b>		<b>13:55</b>			
<b>SS-045(0-3")</b>		<b>14:10</b>			
<b>SS-007(18"-24")</b>		<b>15:00</b>			
<b>W.P. 003</b>		<b>XX</b>			
Preservation Used: 1 = ICE, 2 = HCl, 3 = H <sub>2</sub> SO <sub>4</sub> , 4 = HNO <sub>3</sub> , 5 = NaOH		Soil:		Water:	
6 = Other _____, 7 = Other _____					

### Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
<i>[Signature]</i>	<b>PWGL</b>	<b>5/22/18 1:00</b>	<b>1)</b>	<b>JS</b>
Relinquished by	Company	Date / Time	Received by	Company
<b>2)</b> <b>JB</b>	<b>YAA</b>	<b>5/22/18 1:34</b>	<b>2)</b>	
Relinquished by	Company	Date / Time	Received by	Company
<b>3)</b>	<b>YAA</b>	<b>5/22/18 2:15</b>	<b>3)</b> <b>Jim Iannucci</b>	<b>YAA</b>
Relinquished by	Company	Date / Time	Received by	Company
<b>4)</b>			<b>4)</b>	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)



# TestAmerica

NYSC  
460501

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 5 of 8

Name (for report and invoice) <b>Jeanfer Lewis</b>		Samplers Name (Printed) <b>Nick Lannucci</b>		Site/Project Identification <b>BSC 1801</b>	
Company <b>PWGC</b>		P. O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other:	
Address <b>630 Johnson Ave Ste 2</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 5 days		ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST) <b>Pest Herb TAL Metals Hg/Mercury</b>	
City <b>Bohemia</b>		State <b>NY</b>			
Phone <b>(631) 589-6353</b>		Fax			
Sample Identification <b>DUP-004</b>	Date <b>5/24/8XX</b>	Time <b>5</b>	Matrix <b>1</b>	No. of Cont.	
Preservation Used: 1 = ICE, 2 = HCl, 3 = H <sub>2</sub> SO <sub>4</sub> , 4 = HNO <sub>3</sub> , 5 = NaOH Soil: _____ Water: _____ 6 = Other _____ 7 = Other _____					

### Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by <b>[Signature]</b>	Company <b>PWGC</b>	Date / Time <b>5/24/1600</b>	Received by <b>[Signature]</b>	Company <b>TA</b>
Relinquished by <b>[Signature]</b>	Company <b>TA</b>	Date / Time <b>5/24/1948</b>	Received by <b>[Signature]</b>	Company <b>TA</b>
Relinquished by <b>[Signature]</b>	Company <b>TA</b>	Date / Time <b>5/24/1948</b>	Received by <b>[Signature]</b>	Company <b>TA</b>
Relinquished by <b>[Signature]</b>	Company <b>TA</b>	Date / Time <b>5/24/1948</b>	Received by <b>[Signature]</b>	Company <b>TA</b>



THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 6 of 8

Name (for report and invoice) <b>Jennifer Lewis</b>		Samplers Name (Printed) <b>Nick Janucci</b>		Site/Project Identification <b>RSCL1801</b>	
Company <b>PWGL</b>		P.O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other:	
Address <b>630 Johnson Ave Ste 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> <b>HOLD</b>		ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)	
City <b>Bohemia</b> State <b>NY</b>		Phone <b>(631) 589-6353</b> Fax		LAB USE ONLY Job No: <b>106700</b> Project No:	
Sample Identification		Date	Time	Matrix	No. of:
35-025 (18"-24")		5/24/18	8:00	S	1
35-026 (18"-24")			8:25		
35-028 (18"-24")			8:50		
35-029 (18"-24")			9:15		
35-030 (18"-24")			9:30		
35-032 (18"-24")			10:05		
35-033 (18"-24")			10:20		
35-035 (18"-24")			10:55		
35-037 (18"-24")			11:30		
35-039 (18"-24")			12:00		
Preservation Used: 1 = ICE, 2 = HCl, 3 = H <sub>2</sub> SO <sub>4</sub> , 4 = HNO <sub>3</sub> , 5 = NaOH		Soil:		Water:	
6 = Other		7 = Other			

Special Instructions <b>ALL SAMPLES THIS CHAIN TO HOLD</b>		Water Metals Filtered (Yes/No)?	
Relinquished by <b>[Signature]</b>	Company <b>PWGL</b>	Date / Time <b>5/24/18 1600</b>	Received by <b>[Signature]</b>
Relinquished by <b>[Signature]</b>	Company <b>VA</b>	Date / Time <b>5/24/18 1845</b>	Received by <b>[Signature]</b>
Relinquished by <b>[Signature]</b>	Company <b>F.A.</b>	Date / Time <b>5/24/18 17:00</b>	Received by <b>[Signature]</b>
Relinquished by <b>[Signature]</b>	Company <b>[Signature]</b>	Date / Time	Received by <b>[Signature]</b>



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY / ANALYSIS REQUEST

NYSC

777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 7 of 8

Name (for report and invoice)

Jennifer Lewis

Samplers Name (Printed)

Nick Iannucci

Site/Project Identification

PSL1801

Company

PWGL

P.O. #

State (Location of site):

Regulatory Program:

Address

630 Johnson Ave Ste 7

City

Bohemia

State

NY

Phone

(631) 589-6353

Fax

Analysis Turnaround Time

Standard ☐

Rush Charges Authorized For:

2 Week ☐

1 Week ☐

Other ☐

ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)

PEST

Herb

TAL Metals

Mercury

LAB USE ONLY

Project No:

Job No:

166722

Sample Numbers

Sample Identification

Date

Time

Matrix

No. of Cont.

55.0410 (18"-24")

5/22/18

1250

3

1

55.0412 (18"-24")

1335

55.0414 (18"-24")

1400

55.0415 (18"-24")

1415

55.0001 (18"-24")

1425

55.0002 (18"-24")

1435

55.0003 (18"-24")

1440

55.0005 (18"-24")

1450

55.0006 (18"-24")

1455

55.0008 (18"-24")

1505

Preservation Used: 1 = ICE, 2 = HCl, 3 = H<sub>2</sub>SO<sub>4</sub>, 4 = HNO<sub>3</sub>, 5 = NaOH

Soil:

6 = Other

Water:

### Special Instructions

HOLD THESE SAMPLES

Water Metals Filtered (Yes/No)?

Relinquished by

Michael Lewis

Company

Date / Time

5/22/18 16:15

Received by

DL

Company

VA.

Relinquished by

ES

Company

VTA

Date / Time

5/22/18 18:45

Received by

Company

T.A.

Relinquished by

Company

T.A.

Date / Time

5/22/18 14:00

Received by

Jon Bruno

Company

PA 601

Relinquished by

Company

Date / Time

Received by

Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

TAL-0016 (0814)



777 New Durham Road  
Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 3 of 20

30

TAL - 0016 (0814







## Login Sample Receipt Checklist

Client: PW Grosser Consulting

Job Number: 460-156722-1

Login Number: 156722

List Source: TestAmerica Edison

List Number: 1

Creator: Meyers, Gary

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.



## ANALYTICAL REPORT

Job Number: 460-156817-1

Job Description: RSL1801 - Island Hills Golf Course

For:  
PW Grosser Consulting  
630 Johnson Ave  
Suite 7  
Bohemia, NY 11716  
Attention: Ms. Jennifer Lewis

*Melissa Haas*

Approved for release.  
Melissa Haas  
Project Manager I  
6/8/2018 6:38 AM

---

Melissa Haas, Project Manager I  
777 New Durham Road, Edison, NJ, 08817  
(203)944-1310  
melissa.haas@testamericainc.com  
06/08/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

**TestAmerica Laboratories, Inc.**

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817  
Tel (732) 549-3900 Fax (732) 549-3679 [www.testamericainc.com](http://www.testamericainc.com)





Job Number: 460-156817-1

Job Description: RSL1801 - Island Hills Golf Course

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in black ink that reads "Melissa Haas". The signature is written in a cursive, flowing style. Below the signature is a solid horizontal line.

Approved for release.  
Melissa Haas  
Project Manager I  
6/8/2018 6:38 AM

Melissa Haas



# Table of Contents

Cover Title Page . . . . .	1
Report Narrative . . . . .	4
Executive Summary . . . . .	8
Method Summary . . . . .	15
Method / Analyst Summary . . . . .	16
Sample Summary . . . . .	17
Sample Results . . . . .	18
Sample Datasheets . . . . .	19
Data Qualifiers . . . . .	109
QC Results . . . . .	110
Qc Association Summary . . . . .	111
Surrogate Recovery Report . . . . .	122
Qc Reports . . . . .	126
Client Chain of Custody . . . . .	174
Sample Receipt Checklist . . . . .	179



## CASE NARRATIVE

**Client: PW Grosser Consulting**

**Project: RSL1801 - Island Hills Golf Course**

**Report Number: 460-156817-1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 5/23/2018 8:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0° C, 2.2° C and 2.5° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005 (460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7), DUP-005 (460-156817-8) and Trip Blank (460-156817-9) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 05/30/2018.

The continuing calibration verification (CCV) analyzed in batch 460-523403 was outside the method criteria for the following analytes: Bromomethane and Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-523519 was outside the method criteria for the following analytes: Dichlorodifluoromethane and 1,1,2-Trichloro-1,2,2-trifluoroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample duplicate (LCSD) for analytical batch 460-523519 recovered outside control limits for trans-1,2-Dichloroethene.

Acetone was detected in method blank MB 460-523519/8 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

### **SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)**

Samples MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005 (460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7) and DUP-005 (460-156817-8) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 05/25/2018 and analyzed on 05/26/2018.

The continuing calibration verification (CCV) associated with batch 460-522695 recovered above the upper control limit for 3,3'-Dichlorobenzidine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been



reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-522606 and analytical batch 460-522695 recovered outside control limits for the following analyte: Benzaldehyde. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Surrogates recoveries for the following laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with batch 460-522606 were outside the upper control limits. Sample has been reported.

Surrogates recoveries for the following laboratory control sample (LCS) associated with batch 460-522606 were outside the upper control limits. All spike recoveries were within limits. Sample has been qualified and reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-522606 and analytical batch 460-522695 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine and 4-Chloroaniline.

Surrogate recovery for the following samples were outside the upper control limit: MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005 (460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7) and DUP-005 (460-156817-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

#### **PESTICIDES**

Samples MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005 (460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7) and DUP-005 (460-156817-8) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 05/25/2018 and 05/26/2018 and analyzed on 05/29/2018 and 05/30/2018.

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

#### **CHLORINATED HERBICIDES**

Samples MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005 (460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7) and DUP-005 (460-156817-8) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared and analyzed on 05/25/2018.

The continuing calibration verification (CCV) associated with batch 522608 recovered above the upper control limit for 2,4-D and 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 522608 recovered above the upper control limit for 2,4-D and 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other difficulties were encountered during the herbicides analysis.

All other quality control parameters were within the acceptance limits.

#### **DISSOLVED METALS (ICP/MS)**

Samples MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005 (460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7) and DUP-005 (460-156817-8) were analyzed for Dissolved Metals (ICP/MS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 05/30/2018 and analyzed on 05/31/2018.

Potassium failed the recovery criteria high for the MS of sample 460-156834-2 in batch 460-524063.

Potassium failed the recovery criteria high for the MSD of sample 460-156834-2 in batch 460-524063.

Refer to the QC report for details.

Samples MW-001 (460-156817-1)[2X], MW-002 (460-156817-2)[2X], MW-003 (460-156817-3)[2X], MW-004 (460-156817-4)[2X], MW-005 (460-156817-5)[2X], MW-006 (460-156817-6)[2X], EB-003 (460-156817-7)[2X] and DUP-005 (460-156817-8)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL METALS (ICP/MS)**

Samples MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005



(460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7) and DUP-005 (460-156817-8) were analyzed for Total Metals (ICP/MS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 05/30/2018 and 05/31/2018 and analyzed on 05/31/2018, 06/01/2018 and 06/07/2018.

Calcium, Magnesium and Sodium failed the recovery criteria low for the MS of sample 460-156888-3 in batch 460-524183.

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

#### **DISSOLVED MERCURY**

Samples MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005 (460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7) and DUP-005 (460-156817-8) were analyzed for dissolved mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 06/02/2018.

No difficulties were encountered during the dissolved Hg analysis.

All quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY**

Samples MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005 (460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7) and DUP-005 (460-156817-8) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 06/01/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

#### **AMMONIA**

Samples MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005 (460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7) and DUP-005 (460-156817-8) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were prepared on 05/30/2018 and 05/31/2018 and analyzed on 05/31/2018 and 06/01/2018.

The method blank for batch 524360 contained Ammonia above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other difficulties were encountered during the ammonia analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL KJELDAHL NITROGEN**

Samples MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005 (460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7) and DUP-005 (460-156817-8) were analyzed for total kjeldahl nitrogen in accordance with EPA Method 351.2. The samples were prepared on 05/30/2018 and 06/06/2018 and analyzed on 05/31/2018 and 06/07/2018.

Total Kjeldahl Nitrogen was detected in method blank MB 480-417086/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Total Kjeldahl Nitrogen failed the recovery criteria low for the MS of sample MW-001MS (460-156817-1) in batch 480-417312.

Total Kjeldahl Nitrogen failed the recovery criteria high for the MS of sample 460-157230-8 in batch 480-418476.

Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the TKN analysis.

All other quality control parameters were within the acceptance limits.

#### **NITRATE-NITRITE AS NITROGEN**

Samples MW-001 (460-156817-1), MW-002 (460-156817-2), MW-003 (460-156817-3), MW-004 (460-156817-4), MW-005 (460-156817-5), MW-006 (460-156817-6), EB-003 (460-156817-7) and DUP-005 (460-156817-8) were analyzed for nitrate-nitrite as



nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 05/25/2018.

Reanalysis of the following samples was performed outside of the analytical holding time due to instrument problems. MW-001 (460-156817-1), MW-002 (460-156817-2), DUP-005 (460-156817-8).

Nitrate as N failed the recovery criteria low for the MS of sample MW-003MS (460-156817-3) in batch 460-522550.

Nitrate as N failed the recovery criteria low for the MSD of sample MW-003MSD (460-156817-3) in batch 460-522550.

Refer to the QC report for details.

Samples MW-001 (460-156817-1)[5X], MW-002 (460-156817-2)[4X], MW-003 (460-156817-3)[5X], MW-004 (460-156817-4)[10X], MW-005 (460-156817-5)[5X], MW-006 (460-156817-6)[10X] and DUP-005 (460-156817-8)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the nitrate-nitrite analysis.

All other quality control parameters were within the acceptance limits.



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156817-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156817-1</b>	<b>MW-001</b>					
Acetone		4.0	J	5.0	ug/L	8260C
Aluminum		62.5		40.0	ug/L	6020A
Antimony		2.9		2.0	ug/L	6020A
Barium		24.2		4.0	ug/L	6020A
Calcium		11000		200	ug/L	6020A
Cobalt		1.4	J	4.0	ug/L	6020A
Copper		7.5		4.0	ug/L	6020A
Iron		175		120	ug/L	6020A
Magnesium		3670		200	ug/L	6020A
Manganese		335		8.0	ug/L	6020A
Nickel		3.5	J	4.0	ug/L	6020A
Potassium		3820		200	ug/L	6020A
Sodium		10400		200	ug/L	6020A
Zinc		5.6	J	16.0	ug/L	6020A
Ammonia		0.078	J	0.10	mg/L	350.1
Total Kjeldahl Nitrogen		0.73	B F1	0.20	mg/L	351.2
Nitrate as N		4.3	H	0.50	mg/L	353.2
Nitrate Nitrite as N		4.4	H	0.50	mg/L	353.2
Nitrite as N		0.024	J H	0.10	mg/L	353.2
<b><i>Dissolved</i></b>						
Barium		25.8		4.0	ug/L	6020A
Cobalt		1.3	J	4.0	ug/L	6020A
Copper		3.5	J	4.0	ug/L	6020A
Manganese		312		8.0	ug/L	6020A
Nickel		3.0	J	4.0	ug/L	6020A
Sodium		9810		200	ug/L	6020A
Magnesium		3770		200	ug/L	6020A
Potassium		3550		200	ug/L	6020A
Calcium		11000		200	ug/L	6020A



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156817-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156817-2</b>	<b>MW-002</b>					
Acetone		3.6	J	5.0	ug/L	8260C
Aluminum		17.9	J	40.0	ug/L	6020A
Antimony		2.7		2.0	ug/L	6020A
Barium		20.0		4.0	ug/L	6020A
Calcium		9280		200	ug/L	6020A
Chromium		1.3	J	4.0	ug/L	6020A
Copper		2.0	J	4.0	ug/L	6020A
Iron		52.2	J	120	ug/L	6020A
Magnesium		4070		200	ug/L	6020A
Manganese		9.5		8.0	ug/L	6020A
Potassium		5640		200	ug/L	6020A
Sodium		17000		200	ug/L	6020A
Ammonia		0.063	J	0.10	mg/L	350.1
Total Kjeldahl Nitrogen		0.29	B	0.20	mg/L	351.2
Nitrate as N		3.1	H	0.40	mg/L	353.2
Nitrate Nitrite as N		3.3	H	0.40	mg/L	353.2
Nitrite as N		0.038	J H	0.10	mg/L	353.2
<b><i>Dissolved</i></b>						
Barium		20.9		4.0	ug/L	6020A
Manganese		7.6	J	8.0	ug/L	6020A
Sodium		16300		200	ug/L	6020A
Magnesium		4220		200	ug/L	6020A
Potassium		5620		200	ug/L	6020A
Calcium		9190		200	ug/L	6020A



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156817-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156817-3</b>	<b>MW-003</b>					
Acetone		3.9	J	5.0	ug/L	8260C
Aluminum		23.6	J	40.0	ug/L	6020A
Antimony		2.4		2.0	ug/L	6020A
Barium		18.8		4.0	ug/L	6020A
Calcium		8070		200	ug/L	6020A
Chromium		1.9	J	4.0	ug/L	6020A
Iron		66.9	J	120	ug/L	6020A
Magnesium		3430		200	ug/L	6020A
Manganese		19.5		8.0	ug/L	6020A
Nickel		1.4	J	4.0	ug/L	6020A
Potassium		3840		200	ug/L	6020A
Sodium		12500		200	ug/L	6020A
Ammonia		0.057	J	0.10	mg/L	350.1
Total Kjeldahl Nitrogen		0.27	B	0.20	mg/L	351.2
Nitrate as N		3.0		0.50	mg/L	353.2
Nitrate Nitrite as N		3.1		0.50	mg/L	353.2
Nitrite as N		0.028	J	0.10	mg/L	353.2
<b><i>Dissolved</i></b>						
Barium		19.2		4.0	ug/L	6020A
Manganese		17.9		8.0	ug/L	6020A
Sodium		11800		200	ug/L	6020A
Magnesium		3510		200	ug/L	6020A
Potassium		3540		200	ug/L	6020A
Calcium		8030		200	ug/L	6020A



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156817-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156817-4</b>	<b>MW-004</b>					
Acetone		3.7	J	5.0	ug/L	8260C
Aluminum		26.5	J	40.0	ug/L	6020A
Barium		22.0		4.0	ug/L	6020A
Calcium		11600		200	ug/L	6020A
Chromium		1.3	J	4.0	ug/L	6020A
Copper		3.0	J	4.0	ug/L	6020A
Iron		60.7	J	120	ug/L	6020A
Magnesium		5120		200	ug/L	6020A
Manganese		23.5		8.0	ug/L	6020A
Potassium		4210		200	ug/L	6020A
Sodium		13200		200	ug/L	6020A
Vanadium		1.2	J	4.0	ug/L	6020A
Ammonia		0.076	J	0.10	mg/L	350.1
Total Kjeldahl Nitrogen		0.30	B	0.20	mg/L	351.2
Nitrate as N		4.7		1.0	mg/L	353.2
Nitrate Nitrite as N		5.0		1.0	mg/L	353.2
Nitrite as N		0.019	J	0.10	mg/L	353.2
<b><i>Dissolved</i></b>						
Barium		22.9		4.0	ug/L	6020A
Copper		1.9	J	4.0	ug/L	6020A
Manganese		22.7		8.0	ug/L	6020A
Sodium		12700		200	ug/L	6020A
Magnesium		4920		200	ug/L	6020A
Potassium		4280		200	ug/L	6020A
Calcium		11900		200	ug/L	6020A



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156817-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156817-5</b>	<b>MW-005</b>					
Acetone		3.1	J	5.0	ug/L	8260C
Aluminum		19.1	J	40.0	ug/L	6020A
Barium		21.3		4.0	ug/L	6020A
Calcium		7400		200	ug/L	6020A
Copper		2.4	J	4.0	ug/L	6020A
Magnesium		3510		200	ug/L	6020A
Manganese		67.2		8.0	ug/L	6020A
Potassium		4880		200	ug/L	6020A
Sodium		16200		200	ug/L	6020A
Ammonia		0.15		0.10	mg/L	350.1
Total Kjeldahl Nitrogen		0.32	B	0.20	mg/L	351.2
Nitrate as N		2.7		0.50	mg/L	353.2
Nitrate Nitrite as N		2.9		0.50	mg/L	353.2
Nitrite as N		0.038	J	0.10	mg/L	353.2
<b><i>Dissolved</i></b>						
Barium		22.1		4.0	ug/L	6020A
Manganese		65.4		8.0	ug/L	6020A
Sodium		15500		200	ug/L	6020A
Magnesium		3350		200	ug/L	6020A
Potassium		4730		200	ug/L	6020A
Calcium		7390		200	ug/L	6020A



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156817-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156817-6</b>	<b>MW-006</b>					
Acetone		2.4	J	5.0	ug/L	8260C
Aluminum		37.9	J	40.0	ug/L	6020A
Barium		32.0		4.0	ug/L	6020A
Calcium		54200		200	ug/L	6020A
Cobalt		3.3	J	4.0	ug/L	6020A
Copper		2.1	J	4.0	ug/L	6020A
Iron		320		120	ug/L	6020A
Magnesium		9250		200	ug/L	6020A
Manganese		165		8.0	ug/L	6020A
Nickel		4.7		4.0	ug/L	6020A
Potassium		3310		200	ug/L	6020A
Selenium		1.1	J	10.0	ug/L	6020A
Sodium		23700		200	ug/L	6020A
Zinc		46.8		16.0	ug/L	6020A
Ammonia		0.22		0.10	mg/L	350.1
Total Kjeldahl Nitrogen		0.39	B	0.20	mg/L	351.2
Nitrate as N		8.7		1.0	mg/L	353.2
Nitrate Nitrite as N		9.1		1.0	mg/L	353.2
Nitrite as N		0.032	J	0.10	mg/L	353.2
<b><i>Dissolved</i></b>						
Barium		32.9		4.0	ug/L	6020A
Cobalt		3.2	J	4.0	ug/L	6020A
Manganese		164		8.0	ug/L	6020A
Nickel		4.4		4.0	ug/L	6020A
Selenium		0.98	J	10.0	ug/L	6020A
Zinc		48.5		16.0	ug/L	6020A
Sodium		22400		200	ug/L	6020A
Magnesium		8840		200	ug/L	6020A
Potassium		3320		200	ug/L	6020A
Calcium		54400		200	ug/L	6020A
Iron		71.5	J	120	ug/L	6020A
<b>460-156817-7</b>	<b>EB-003</b>					
Acetone		8.5		5.0	ug/L	8260C
Benzene		0.19	J	1.0	ug/L	8260C
Methylene Chloride		3.7		1.0	ug/L	8260C
Toluene		0.82	J	1.0	ug/L	8260C
Ammonia		0.052	J	0.10	mg/L	350.1
Total Kjeldahl Nitrogen		0.18	J B	0.20	mg/L	351.2
Nitrite as N		0.0046	J	0.10	mg/L	353.2



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-156817-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-156817-8</b>	<b>DUP-005</b>					
Acetone		2.3	J	5.0	ug/L	8260C
Aluminum		21.6	J	40.0	ug/L	6020A
Barium		21.7		4.0	ug/L	6020A
Calcium		11800		200	ug/L	6020A
Copper		2.8	J	4.0	ug/L	6020A
Iron		55.7	J	120	ug/L	6020A
Magnesium		5130		200	ug/L	6020A
Manganese		23.2		8.0	ug/L	6020A
Potassium		4250		200	ug/L	6020A
Sodium		13300		200	ug/L	6020A
Zinc		8.2	J	16.0	ug/L	6020A
Ammonia		0.13	B	0.10	mg/L	350.1
Nitrate as N		4.8	H	1.0	mg/L	353.2
Nitrate Nitrite as N		5.1	H	1.0	mg/L	353.2
Nitrite as N		0.019	J H	0.10	mg/L	353.2
<i><b>Dissolved</b></i>						
Barium		23.1		4.0	ug/L	6020A
Copper		1.9	J	4.0	ug/L	6020A
Manganese		21.6		8.0	ug/L	6020A
Sodium		12700		200	ug/L	6020A
Magnesium		4950		200	ug/L	6020A
Potassium		4300		200	ug/L	6020A
Calcium		11800		200	ug/L	6020A
<b>460-156817-9TB</b>	<b>TRIP BLANK</b>					
Acetone		1.6	J B	5.0	ug/L	8260C



## METHOD SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156817-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Water</b>			
Volatile Organic Compounds by GC/MS	TAL EDI	SW846 8260C	
Purge and Trap	TAL EDI		SW846 5030C
Semivolatile Organic Compounds (GC/MS)	TAL EDI	SW846 8270D	
Liquid-Liquid Extraction (Separatory Funnel)	TAL EDI		SW846 3510C
Organochlorine Pesticides (GC)	TAL EDI	SW846 8081B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL EDI		SW846 3510C
Herbicides (GC)	TAL EDI	SW846 8151A	
Extraction (Herbicides)	TAL EDI		SW846 8151A
Metals (ICP/MS)	TAL EDI	SW846 6020A	
Preparation, Total Metals	TAL EDI		SW846 3010A
Metals (ICP/MS)	TAL EDI	SW846 6020A	
Preparation, Total Metals	TAL EDI		SW846 3010A
Sample Filtration	TAL EDI		FILTRATION
Mercury (CVAA)	TAL EDI	SW846 7470A	
Preparation, Mercury	TAL EDI		SW846 7470A
Mercury (CVAA)	TAL EDI	SW846 7470A	
Preparation, Mercury	TAL EDI		SW846 7470A
Sample Filtration	TAL EDI		FILTRATION
Nitrogen, Ammonia	TAL EDI	MCAWW 350.1	
Distillation, Ammonia	TAL EDI		Distill/Ammonia
Nitrogen, Nitrate-Nitrite	TAL EDI	MCAWW 353.2	
Nitrogen, Total Kjeldahl	TAL BUF	MCAWW 351.2	
Nitrogen, Total Kjeldahl	TAL BUF		MCAWW 351.2

### Lab References:

TAL BUF = TestAmerica Buffalo

TAL EDI = TestAmerica Edison

### Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.



## METHOD / ANALYST SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156817-1

Method	Analyst	Analyst ID
SW846 8260C	Collado, Ximena X	XXC
SW846 8260C	Desai, Saurab	SZD
SW846 8270D	Khlungprakhon, Sukanya	SK
SW846 8081B	Patel, Jignesh	JHP
SW846 8151A	Kapoor, Sita	SAK
SW846 6020A	Chen, Mandi	MDC
SW846 6020A	Dave, Virendra	VAD
SW846 7470A	Sheikh, Razia B	RBS
MCAWW 350.1	Vu, Huan	HTV
MCAWW 351.2	Thomas, Christine L	CLT
MCAWW 353.2	Mariani, Paul H	PHM



## SAMPLE SUMMARY

Client: PW Grosser Consulting

Job Number: 460-156817-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-156817-1	MW-001	Water	05/23/2018 1005	05/23/2018 2050
460-156817-2	MW-002	Water	05/23/2018 1120	05/23/2018 2050
460-156817-3	MW-003	Water	05/23/2018 1230	05/23/2018 2050
460-156817-4	MW-004	Water	05/23/2018 1320	05/23/2018 2050
460-156817-5	MW-005	Water	05/23/2018 1410	05/23/2018 2050
460-156817-6	MW-006	Water	05/23/2018 1455	05/23/2018 2050
460-156817-7	EB-003	Water	05/23/2018 1130	05/23/2018 2050
460-156817-8	DUP-005	Water	05/23/2018 0000	05/23/2018 2050
460-156817-9TB	Trip Blank	Water	05/23/2018 0000	05/23/2018 2050



# **SAMPLE RESULTS**



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-001**

Lab Sample ID: 460-156817-1

Date Sampled: 05/23/2018 1005

Client Matrix: Water

Date Received: 05/23/2018 2050

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-523403

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45979.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/30/2018 0515

Final Weight/Volume: 5 mL

Prep Date: 05/30/2018 0515

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	4.0	J	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-001

Lab Sample ID: 460-156817-1

Client Matrix: Water

Date Sampled: 05/23/2018 1005

Date Received: 05/23/2018 2050

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	460-523403	Instrument ID:	CVOAMS13
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P45979.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/30/2018 0515			Final Weight/Volume:	5 mL
Prep Date:	05/30/2018 0515				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		74 - 132
4-Bromofluorobenzene	98		77 - 124
Dibromofluoromethane (Surr)	103		72 - 131
Toluene-d8 (Surr)	105		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-002**

Lab Sample ID: 460-156817-2

Date Sampled: 05/23/2018 1120

Client Matrix: Water

Date Received: 05/23/2018 2050

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-523403

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45980.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/30/2018 0541

Final Weight/Volume: 5 mL

Prep Date: 05/30/2018 0541

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	3.6	J	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-002

Lab Sample ID: 460-156817-2

Client Matrix: Water

Date Sampled: 05/23/2018 1120

Date Received: 05/23/2018 2050

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	460-523403	Instrument ID:	CVOAMS13
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P45980.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/30/2018 0541			Final Weight/Volume:	5 mL
Prep Date:	05/30/2018 0541				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		74 - 132
4-Bromofluorobenzene	97		77 - 124
Dibromofluoromethane (Surr)	102		72 - 131
Toluene-d8 (Surr)	103		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-003**

Lab Sample ID: 460-156817-3

Date Sampled: 05/23/2018 1230

Client Matrix: Water

Date Received: 05/23/2018 2050

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-523403

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45981.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/30/2018 0606

Final Weight/Volume: 5 mL

Prep Date: 05/30/2018 0606

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	3.9	J	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-003

Lab Sample ID: 460-156817-3

Client Matrix: Water

Date Sampled: 05/23/2018 1230

Date Received: 05/23/2018 2050

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	460-523403	Instrument ID:	CVOAMS13
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P45981.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/30/2018 0606			Final Weight/Volume:	5 mL
Prep Date:	05/30/2018 0606				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		74 - 132
4-Bromofluorobenzene	110		77 - 124
Dibromofluoromethane (Surr)	114		72 - 131
Toluene-d8 (Surr)	117		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-004**

Lab Sample ID: 460-156817-4

Date Sampled: 05/23/2018 1320

Client Matrix: Water

Date Received: 05/23/2018 2050

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-523403

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45982.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/30/2018 0631

Final Weight/Volume: 5 mL

Prep Date: 05/30/2018 0631

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	3.7	J	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-004

Lab Sample ID: 460-156817-4

Client Matrix: Water

Date Sampled: 05/23/2018 1320

Date Received: 05/23/2018 2050

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	460-523403	Instrument ID:	CVOAMS13
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P45982.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/30/2018 0631			Final Weight/Volume:	5 mL
Prep Date:	05/30/2018 0631				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		74 - 132
4-Bromofluorobenzene	96		77 - 124
Dibromofluoromethane (Surr)	102		72 - 131
Toluene-d8 (Surr)	102		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-005**

Lab Sample ID: 460-156817-5

Date Sampled: 05/23/2018 1410

Client Matrix: Water

Date Received: 05/23/2018 2050

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-523403

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45983.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/30/2018 0657

Final Weight/Volume: 5 mL

Prep Date: 05/30/2018 0657

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	3.1	J	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-005

Lab Sample ID: 460-156817-5

Client Matrix: Water

Date Sampled: 05/23/2018 1410

Date Received: 05/23/2018 2050

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	460-523403	Instrument ID:	CVOAMS13
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P45983.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/30/2018 0657			Final Weight/Volume:	5 mL
Prep Date:	05/30/2018 0657				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		74 - 132
4-Bromofluorobenzene	98		77 - 124
Dibromofluoromethane (Surr)	105		72 - 131
Toluene-d8 (Surr)	106		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-006**

Lab Sample ID: 460-156817-6

Date Sampled: 05/23/2018 1455

Client Matrix: Water

Date Received: 05/23/2018 2050

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-523403

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45984.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/30/2018 0722

Final Weight/Volume: 5 mL

Prep Date: 05/30/2018 0722

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	2.4	J	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-006

Lab Sample ID: 460-156817-6

Client Matrix: Water

Date Sampled: 05/23/2018 1455

Date Received: 05/23/2018 2050

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-523403

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45984.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/30/2018 0722

Final Weight/Volume: 5 mL

Prep Date: 05/30/2018 0722

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		74 - 132
4-Bromofluorobenzene	101		77 - 124
Dibromofluoromethane (Surr)	108		72 - 131
Toluene-d8 (Surr)	106		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: EB-003**

Lab Sample ID: 460-156817-7

Date Sampled: 05/23/2018 1130

Client Matrix: Water

Date Received: 05/23/2018 2050

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-523403

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45985.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/30/2018 0747

Final Weight/Volume: 5 mL

Prep Date: 05/30/2018 0747

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	8.5		1.1	5.0
Benzene	0.19	J	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	3.7		0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: EB-003

Lab Sample ID: 460-156817-7

Client Matrix: Water

Date Sampled: 05/23/2018 1130

Date Received: 05/23/2018 2050

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	460-523403	Instrument ID:	CVOAMS13
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P45985.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/30/2018 0747			Final Weight/Volume:	5 mL
Prep Date:	05/30/2018 0747				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	0.82	J	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		74 - 132
4-Bromofluorobenzene	107		77 - 124
Dibromofluoromethane (Surr)	113		72 - 131
Toluene-d8 (Surr)	113		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: DUP-005**

Lab Sample ID: 460-156817-8

Date Sampled: 05/23/2018 0000

Client Matrix: Water

Date Received: 05/23/2018 2050

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-523403

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45986.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/30/2018 0812

Final Weight/Volume: 5 mL

Prep Date: 05/30/2018 0812

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	2.3	J	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: DUP-005

Lab Sample ID: 460-156817-8

Client Matrix: Water

Date Sampled: 05/23/2018 0000

Date Received: 05/23/2018 2050

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 460-523403

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45986.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/30/2018 0812

Final Weight/Volume: 5 mL

Prep Date: 05/30/2018 0812

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		74 - 132
4-Bromofluorobenzene	99		77 - 124
Dibromofluoromethane (Surr)	105		72 - 131
Toluene-d8 (Surr)	103		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: Trip Blank**

Lab Sample ID: 460-156817-9TB

Date Sampled: 05/23/2018 0000

Client Matrix: Water

Date Received: 05/23/2018 2050

**8260C Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C

Analysis Batch: 460-523519

Instrument ID: CVOAMS13

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: P45998.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 05/30/2018 1325

Final Weight/Volume: 5 mL

Prep Date: 05/30/2018 1325

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	1.6	J B	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0
Tetrachloroethene	1.0	U	0.12	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-156817-9TB

Client Matrix: Water

Date Sampled: 05/23/2018 0000

Date Received: 05/23/2018 2050

### 8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	460-523519	Instrument ID:	CVOAMS13
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P45998.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/30/2018 1325			Final Weight/Volume:	5 mL
Prep Date:	05/30/2018 1325				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U *	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		74 - 132
4-Bromofluorobenzene	94		77 - 124
Dibromofluoromethane (Surr)	89		72 - 131
Toluene-d8 (Surr)	101		80 - 120



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-001**

Lab Sample ID: 460-156817-1

Date Sampled: 05/23/2018 1005

Client Matrix: Water

Date Received: 05/23/2018 2050

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153359.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/26/2018 0350			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	10	U	1.2	10
1,2,4,5-Tetrachlorobenzene	10	U	1.2	10
2,2'-oxybis[1-chloropropane]	10	U	0.63	10
2,3,4,6-Tetrachlorophenol	10	U	0.75	10
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	10	U	0.30	10
2,4-Dichlorophenol	10	U	0.42	10
2,4-Dimethylphenol	10	U	0.24	10
2,4-Dinitrophenol	20	U	14	20
2,4-Dinitrotoluene	2.0	U	1.0	2.0
2,6-Dinitrotoluene	2.0	U	0.39	2.0
2-Chloronaphthalene	10	U	1.2	10
2-Chlorophenol	10	U	0.38	10
2-Methylnaphthalene	10	U	1.1	10
2-Methylphenol	10	U	0.26	10
2-Nitroaniline	10	U	0.47	10
2-Nitrophenol	10	U	0.75	10
3,3'-Dichlorobenzidine	10	U *	1.4	10
3-Nitroaniline	10	U	0.96	10
4,6-Dinitro-2-methylphenol	20	U	13	20
4-Bromophenyl phenyl ether	10	U	0.75	10
4-Chloro-3-methylphenol	10	U	0.58	10
4-Chloroaniline	10	U *	1.9	10
4-Chlorophenyl phenyl ether	10	U	1.3	10
4-Methylphenol	10	U	0.24	10
4-Nitroaniline	10	U	0.54	10
4-Nitrophenol	20	U	0.69	20
Acenaphthene	10	U	1.1	10
Acenaphthylene	10	U	0.82	10
Acetophenone	10	U	0.79	10
Anthracene	10	U	0.63	10
Atrazine	2.0	U	1.3	2.0
Benzaldehyde	10	U *	0.59	10
Benzo[a]anthracene	1.0	U	0.59	1.0
Benzo[a]pyrene	1.0	U	0.41	1.0
Benzo[b]fluoranthene	2.0	U	1.1	2.0
Benzo[g,h,i]perylene	10	U	1.4	10
Benzo[k]fluoranthene	1.0	U	0.67	1.0
Bis(2-chloroethoxy)methane	10	U	0.24	10
Bis(2-chloroethyl)ether	1.0	U	0.30	1.0
Bis(2-ethylhexyl) phthalate	2.0	U	1.7	2.0
Butyl benzyl phthalate	10	U	0.85	10
Caprolactam	10	U	0.68	10
Carbazole	10	U	0.68	10
Chrysene	2.0	U	0.91	2.0
Dibenz(a,h)anthracene	1.0	U	0.72	1.0



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-001

Lab Sample ID: 460-156817-1

Client Matrix: Water

Date Sampled: 05/23/2018 1005

Date Received: 05/23/2018 2050

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D	Analysis Batch: 460-522695	Instrument ID: CBNAMS16
Prep Method: 3510C	Prep Batch: 460-522606	Lab File ID: A153359.D
Dilution: 1.0		Initial Weight/Volume: 250 mL
Analysis Date: 05/26/2018 0350		Final Weight/Volume: 2 mL
Prep Date: 05/25/2018 1617		Injection Volume: 5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	10	U	1.1	10
Diethyl phthalate	10	U	0.98	10
Dimethyl phthalate	10	U	0.77	10
Di-n-butyl phthalate	10	U	0.84	10
Di-n-octyl phthalate	10	U	4.8	10
Fluoranthene	10	U	0.84	10
Fluorene	10	U	0.91	10
Hexachlorobenzene	1.0	U	0.40	1.0
Hexachlorobutadiene	1.0	U	0.78	1.0
Hexachlorocyclopentadiene	10	U	1.7	10
Hexachloroethane	2.0	U	1.2	2.0
Indeno[1,2,3-cd]pyrene	2.0	U	1.3	2.0
Isophorone	10	U	0.80	10
Naphthalene	10	U	1.1	10
Nitrobenzene	1.0	U	0.57	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.43	1.0
N-Nitrosodiphenylamine	10	U	0.89	10
Pentachlorophenol	20	U	1.4	20
Phenanthrene	10	U	0.58	10
Phenol	10	U	0.29	10
Pyrene	10	U	1.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	127		26 - 139
2-Fluorobiphenyl	187	X	45 - 107
2-Fluorophenol (Surr)	89	X	25 - 58
Nitrobenzene-d5 (Surr)	177	X	51 - 108
Phenol-d5 (Surr)	85	X	14 - 39
Terphenyl-d14 (Surr)	231	X	40 - 148



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-002**

Lab Sample ID: 460-156817-2

Date Sampled: 05/23/2018 1120

Client Matrix: Water

Date Received: 05/23/2018 2050

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153360.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/26/2018 0411			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	10	U	1.2	10
1,2,4,5-Tetrachlorobenzene	10	U	1.2	10
2,2'-oxybis[1-chloropropane]	10	U	0.63	10
2,3,4,6-Tetrachlorophenol	10	U	0.75	10
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	10	U	0.30	10
2,4-Dichlorophenol	10	U	0.42	10
2,4-Dimethylphenol	10	U	0.24	10
2,4-Dinitrophenol	20	U	14	20
2,4-Dinitrotoluene	2.0	U	1.0	2.0
2,6-Dinitrotoluene	2.0	U	0.39	2.0
2-Chloronaphthalene	10	U	1.2	10
2-Chlorophenol	10	U	0.38	10
2-Methylnaphthalene	10	U	1.1	10
2-Methylphenol	10	U	0.26	10
2-Nitroaniline	10	U	0.47	10
2-Nitrophenol	10	U	0.75	10
3,3'-Dichlorobenzidine	10	U *	1.4	10
3-Nitroaniline	10	U	0.96	10
4,6-Dinitro-2-methylphenol	20	U	13	20
4-Bromophenyl phenyl ether	10	U	0.75	10
4-Chloro-3-methylphenol	10	U	0.58	10
4-Chloroaniline	10	U *	1.9	10
4-Chlorophenyl phenyl ether	10	U	1.3	10
4-Methylphenol	10	U	0.24	10
4-Nitroaniline	10	U	0.54	10
4-Nitrophenol	20	U	0.69	20
Acenaphthene	10	U	1.1	10
Acenaphthylene	10	U	0.82	10
Acetophenone	10	U	0.79	10
Anthracene	10	U	0.63	10
Atrazine	2.0	U	1.3	2.0
Benzaldehyde	10	U *	0.59	10
Benzo[a]anthracene	1.0	U	0.59	1.0
Benzo[a]pyrene	1.0	U	0.41	1.0
Benzo[b]fluoranthene	2.0	U	1.1	2.0
Benzo[g,h,i]perylene	10	U	1.4	10
Benzo[k]fluoranthene	1.0	U	0.67	1.0
Bis(2-chloroethoxy)methane	10	U	0.24	10
Bis(2-chloroethyl)ether	1.0	U	0.30	1.0
Bis(2-ethylhexyl) phthalate	2.0	U	1.7	2.0
Butyl benzyl phthalate	10	U	0.85	10
Caprolactam	10	U	0.68	10
Carbazole	10	U	0.68	10
Chrysene	2.0	U	0.91	2.0
Dibenz(a,h)anthracene	1.0	U	0.72	1.0



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-002**

Lab Sample ID: 460-156817-2

Date Sampled: 05/23/2018 1120

Client Matrix: Water

Date Received: 05/23/2018 2050

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153360.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/26/2018 0411			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	10	U	1.1	10
Diethyl phthalate	10	U	0.98	10
Dimethyl phthalate	10	U	0.77	10
Di-n-butyl phthalate	10	U	0.84	10
Di-n-octyl phthalate	10	U	4.8	10
Fluoranthene	10	U	0.84	10
Fluorene	10	U	0.91	10
Hexachlorobenzene	1.0	U	0.40	1.0
Hexachlorobutadiene	1.0	U	0.78	1.0
Hexachlorocyclopentadiene	10	U	1.7	10
Hexachloroethane	2.0	U	1.2	2.0
Indeno[1,2,3-cd]pyrene	2.0	U	1.3	2.0
Isophorone	10	U	0.80	10
Naphthalene	10	U	1.1	10
Nitrobenzene	1.0	U	0.57	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.43	1.0
N-Nitrosodiphenylamine	10	U	0.89	10
Pentachlorophenol	20	U	1.4	20
Phenanthrene	10	U	0.58	10
Phenol	10	U	0.29	10
Pyrene	10	U	1.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	160	X	26 - 139
2-Fluorobiphenyl	134	X	45 - 107
2-Fluorophenol (Surr)	115	X	25 - 58
Nitrobenzene-d5 (Surr)	146	X	51 - 108
Phenol-d5 (Surr)	95	X	14 - 39
Terphenyl-d14 (Surr)	182	X	40 - 148



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-003**

Lab Sample ID: 460-156817-3

Date Sampled: 05/23/2018 1230

Client Matrix: Water

Date Received: 05/23/2018 2050

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153361.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/26/2018 0432			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	10	U	1.2	10
1,2,4,5-Tetrachlorobenzene	10	U	1.2	10
2,2'-oxybis[1-chloropropane]	10	U	0.63	10
2,3,4,6-Tetrachlorophenol	10	U	0.75	10
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	10	U	0.30	10
2,4-Dichlorophenol	10	U	0.42	10
2,4-Dimethylphenol	10	U	0.24	10
2,4-Dinitrophenol	20	U	14	20
2,4-Dinitrotoluene	2.0	U	1.0	2.0
2,6-Dinitrotoluene	2.0	U	0.39	2.0
2-Chloronaphthalene	10	U	1.2	10
2-Chlorophenol	10	U	0.38	10
2-Methylnaphthalene	10	U	1.1	10
2-Methylphenol	10	U	0.26	10
2-Nitroaniline	10	U	0.47	10
2-Nitrophenol	10	U	0.75	10
3,3'-Dichlorobenzidine	10	U *	1.4	10
3-Nitroaniline	10	U	0.96	10
4,6-Dinitro-2-methylphenol	20	U	13	20
4-Bromophenyl phenyl ether	10	U	0.75	10
4-Chloro-3-methylphenol	10	U	0.58	10
4-Chloroaniline	10	U *	1.9	10
4-Chlorophenyl phenyl ether	10	U	1.3	10
4-Methylphenol	10	U	0.24	10
4-Nitroaniline	10	U	0.54	10
4-Nitrophenol	20	U	0.69	20
Acenaphthene	10	U	1.1	10
Acenaphthylene	10	U	0.82	10
Acetophenone	10	U	0.79	10
Anthracene	10	U	0.63	10
Atrazine	2.0	U	1.3	2.0
Benzaldehyde	10	U *	0.59	10
Benzo[a]anthracene	1.0	U	0.59	1.0
Benzo[a]pyrene	1.0	U	0.41	1.0
Benzo[b]fluoranthene	2.0	U	1.1	2.0
Benzo[g,h,i]perylene	10	U	1.4	10
Benzo[k]fluoranthene	1.0	U	0.67	1.0
Bis(2-chloroethoxy)methane	10	U	0.24	10
Bis(2-chloroethyl)ether	1.0	U	0.30	1.0
Bis(2-ethylhexyl) phthalate	2.0	U	1.7	2.0
Butyl benzyl phthalate	10	U	0.85	10
Caprolactam	10	U	0.68	10
Carbazole	10	U	0.68	10
Chrysene	2.0	U	0.91	2.0
Dibenz(a,h)anthracene	1.0	U	0.72	1.0



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-003

Lab Sample ID: 460-156817-3

Client Matrix: Water

Date Sampled: 05/23/2018 1230

Date Received: 05/23/2018 2050

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153361.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/26/2018 0432			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	10	U	1.1	10
Diethyl phthalate	10	U	0.98	10
Dimethyl phthalate	10	U	0.77	10
Di-n-butyl phthalate	10	U	0.84	10
Di-n-octyl phthalate	10	U	4.8	10
Fluoranthene	10	U	0.84	10
Fluorene	10	U	0.91	10
Hexachlorobenzene	1.0	U	0.40	1.0
Hexachlorobutadiene	1.0	U	0.78	1.0
Hexachlorocyclopentadiene	10	U	1.7	10
Hexachloroethane	2.0	U	1.2	2.0
Indeno[1,2,3-cd]pyrene	2.0	U	1.3	2.0
Isophorone	10	U	0.80	10
Naphthalene	10	U	1.1	10
Nitrobenzene	1.0	U	0.57	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.43	1.0
N-Nitrosodiphenylamine	10	U	0.89	10
Pentachlorophenol	20	U	1.4	20
Phenanthrene	10	U	0.58	10
Phenol	10	U	0.29	10
Pyrene	10	U	1.6	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)	147	X	26 - 139	
2-Fluorobiphenyl	128	X	45 - 107	
2-Fluorophenol (Surr)	59	X	25 - 58	
Nitrobenzene-d5 (Surr)	135	X	51 - 108	
Phenol-d5 (Surr)	39		14 - 39	
Terphenyl-d14 (Surr)	168	X	40 - 148	



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-004

Lab Sample ID: 460-156817-4

Client Matrix: Water

Date Sampled: 05/23/2018 1320

Date Received: 05/23/2018 2050

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153362.D
Dilution:	1.0			Initial Weight/Volume:	240 mL
Analysis Date:	05/26/2018 0453			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	10	U	1.2	10
1,2,4,5-Tetrachlorobenzene	10	U	1.3	10
2,2'-oxybis[1-chloropropane]	10	U	0.66	10
2,3,4,6-Tetrachlorophenol	10	U	0.78	10
2,4,5-Trichlorophenol	10	U	0.29	10
2,4,6-Trichlorophenol	10	U	0.31	10
2,4-Dichlorophenol	10	U	0.44	10
2,4-Dimethylphenol	10	U	0.25	10
2,4-Dinitrophenol	21	U	15	21
2,4-Dinitrotoluene	2.1	U	1.0	2.1
2,6-Dinitrotoluene	2.1	U	0.41	2.1
2-Chloronaphthalene	10	U	1.2	10
2-Chlorophenol	10	U	0.39	10
2-Methylnaphthalene	10	U	1.1	10
2-Methylphenol	10	U	0.27	10
2-Nitroaniline	10	U	0.49	10
2-Nitrophenol	10	U	0.78	10
3,3'-Dichlorobenzidine	10	U *	1.5	10
3-Nitroaniline	10	U	1.0	10
4,6-Dinitro-2-methylphenol	21	U	14	21
4-Bromophenyl phenyl ether	10	U	0.78	10
4-Chloro-3-methylphenol	10	U	0.60	10
4-Chloroaniline	10	U *	2.0	10
4-Chlorophenyl phenyl ether	10	U	1.3	10
4-Methylphenol	10	U	0.24	10
4-Nitroaniline	10	U	0.57	10
4-Nitrophenol	21	U	0.72	21
Acenaphthene	10	U	1.1	10
Acenaphthylene	10	U	0.86	10
Acetophenone	10	U	0.82	10
Anthracene	10	U	0.66	10
Atrazine	2.1	U	1.4	2.1
Benzaldehyde	10	U *	0.62	10
Benzo[a]anthracene	1.0	U	0.62	1.0
Benzo[a]pyrene	1.0	U	0.42	1.0
Benzo[b]fluoranthene	2.1	U	1.2	2.1
Benzo[g,h,i]perylene	10	U	1.5	10
Benzo[k]fluoranthene	1.0	U	0.70	1.0
Bis(2-chloroethoxy)methane	10	U	0.25	10
Bis(2-chloroethyl)ether	1.0	U	0.31	1.0
Bis(2-ethylhexyl) phthalate	2.1	U	1.8	2.1
Butyl benzyl phthalate	10	U	0.89	10
Caprolactam	10	U	0.71	10
Carbazole	10	U	0.71	10
Chrysene	2.1	U	0.94	2.1
Dibenz(a,h)anthracene	1.0	U	0.75	1.0



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-004

Lab Sample ID: 460-156817-4

Client Matrix: Water

Date Sampled: 05/23/2018 1320

Date Received: 05/23/2018 2050

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153362.D
Dilution:	1.0			Initial Weight/Volume:	240 mL
Analysis Date:	05/26/2018 0453			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	10	U	1.1	10
Diethyl phthalate	10	U	1.0	10
Dimethyl phthalate	10	U	0.80	10
Di-n-butyl phthalate	10	U	0.88	10
Di-n-octyl phthalate	10	U	5.0	10
Fluoranthene	10	U	0.88	10
Fluorene	10	U	0.95	10
Hexachlorobenzene	1.0	U	0.41	1.0
Hexachlorobutadiene	1.0	U	0.81	1.0
Hexachlorocyclopentadiene	10	U	1.8	10
Hexachloroethane	2.1	U	1.2	2.1
Indeno[1,2,3-cd]pyrene	2.1	U	1.3	2.1
Isophorone	10	U	0.83	10
Naphthalene	10	U	1.2	10
Nitrobenzene	1.0	U	0.59	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.45	1.0
N-Nitrosodiphenylamine	10	U	0.93	10
Pentachlorophenol	21	U	1.5	21
Phenanthrene	10	U	0.60	10
Phenol	10	U	0.30	10
Pyrene	10	U	1.7	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)	121		26 - 139	
2-Fluorobiphenyl	126	X	45 - 107	
2-Fluorophenol (Surr)	55		25 - 58	
Nitrobenzene-d5 (Surr)	127	X	51 - 108	
Phenol-d5 (Surr)	37		14 - 39	
Terphenyl-d14 (Surr)	149	X	40 - 148	



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-005

Lab Sample ID: 460-156817-5

Client Matrix: Water

Date Sampled: 05/23/2018 1410

Date Received: 05/23/2018 2050

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D	Analysis Batch: 460-522695	Instrument ID: CBNAMS16
Prep Method: 3510C	Prep Batch: 460-522606	Lab File ID: A153363.D
Dilution: 1.0		Initial Weight/Volume: 240 mL
Analysis Date: 05/26/2018 0514		Final Weight/Volume: 2 mL
Prep Date: 05/25/2018 1617		Injection Volume: 5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	10	U	1.2	10
1,2,4,5-Tetrachlorobenzene	10	U	1.3	10
2,2'-oxybis[1-chloropropane]	10	U	0.66	10
2,3,4,6-Tetrachlorophenol	10	U	0.78	10
2,4,5-Trichlorophenol	10	U	0.29	10
2,4,6-Trichlorophenol	10	U	0.31	10
2,4-Dichlorophenol	10	U	0.44	10
2,4-Dimethylphenol	10	U	0.25	10
2,4-Dinitrophenol	21	U	15	21
2,4-Dinitrotoluene	2.1	U	1.0	2.1
2,6-Dinitrotoluene	2.1	U	0.41	2.1
2-Chloronaphthalene	10	U	1.2	10
2-Chlorophenol	10	U	0.39	10
2-Methylnaphthalene	10	U	1.1	10
2-Methylphenol	10	U	0.27	10
2-Nitroaniline	10	U	0.49	10
2-Nitrophenol	10	U	0.78	10
3,3'-Dichlorobenzidine	10	U *	1.5	10
3-Nitroaniline	10	U	1.0	10
4,6-Dinitro-2-methylphenol	21	U	14	21
4-Bromophenyl phenyl ether	10	U	0.78	10
4-Chloro-3-methylphenol	10	U	0.60	10
4-Chloroaniline	10	U *	2.0	10
4-Chlorophenyl phenyl ether	10	U	1.3	10
4-Methylphenol	10	U	0.24	10
4-Nitroaniline	10	U	0.57	10
4-Nitrophenol	21	U	0.72	21
Acenaphthene	10	U	1.1	10
Acenaphthylene	10	U	0.86	10
Acetophenone	10	U	0.82	10
Anthracene	10	U	0.66	10
Atrazine	2.1	U	1.4	2.1
Benzaldehyde	10	U *	0.62	10
Benzo[a]anthracene	1.0	U	0.62	1.0
Benzo[a]pyrene	1.0	U	0.42	1.0
Benzo[b]fluoranthene	2.1	U	1.2	2.1
Benzo[g,h,i]perylene	10	U	1.5	10
Benzo[k]fluoranthene	1.0	U	0.70	1.0
Bis(2-chloroethoxy)methane	10	U	0.25	10
Bis(2-chloroethyl)ether	1.0	U	0.31	1.0
Bis(2-ethylhexyl) phthalate	2.1	U	1.8	2.1
Butyl benzyl phthalate	10	U	0.89	10
Caprolactam	10	U	0.71	10
Carbazole	10	U	0.71	10
Chrysene	2.1	U	0.94	2.1
Dibenz(a,h)anthracene	1.0	U	0.75	1.0



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-005

Lab Sample ID: 460-156817-5

Client Matrix: Water

Date Sampled: 05/23/2018 1410

Date Received: 05/23/2018 2050

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153363.D
Dilution:	1.0			Initial Weight/Volume:	240 mL
Analysis Date:	05/26/2018 0514			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	10	U	1.1	10
Diethyl phthalate	10	U	1.0	10
Dimethyl phthalate	10	U	0.80	10
Di-n-butyl phthalate	10	U	0.88	10
Di-n-octyl phthalate	10	U	5.0	10
Fluoranthene	10	U	0.88	10
Fluorene	10	U	0.95	10
Hexachlorobenzene	1.0	U	0.41	1.0
Hexachlorobutadiene	1.0	U	0.81	1.0
Hexachlorocyclopentadiene	10	U	1.8	10
Hexachloroethane	2.1	U	1.2	2.1
Indeno[1,2,3-cd]pyrene	2.1	U	1.3	2.1
Isophorone	10	U	0.83	10
Naphthalene	10	U	1.2	10
Nitrobenzene	1.0	U	0.59	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.45	1.0
N-Nitrosodiphenylamine	10	U	0.93	10
Pentachlorophenol	21	U	1.5	21
Phenanthrene	10	U	0.60	10
Phenol	10	U	0.30	10
Pyrene	10	U	1.7	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)	112		26 - 139	
2-Fluorobiphenyl	124	X	45 - 107	
2-Fluorophenol (Surr)	49		25 - 58	
Nitrobenzene-d5 (Surr)	129	X	51 - 108	
Phenol-d5 (Surr)	33		14 - 39	
Terphenyl-d14 (Surr)	157	X	40 - 148	



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-006**

Lab Sample ID: 460-156817-6

Date Sampled: 05/23/2018 1455

Client Matrix: Water

Date Received: 05/23/2018 2050

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153364.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/26/2018 0535			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	10	U	1.2	10
1,2,4,5-Tetrachlorobenzene	10	U	1.2	10
2,2'-oxybis[1-chloropropane]	10	U	0.63	10
2,3,4,6-Tetrachlorophenol	10	U	0.75	10
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	10	U	0.30	10
2,4-Dichlorophenol	10	U	0.42	10
2,4-Dimethylphenol	10	U	0.24	10
2,4-Dinitrophenol	20	U	14	20
2,4-Dinitrotoluene	2.0	U	1.0	2.0
2,6-Dinitrotoluene	2.0	U	0.39	2.0
2-Chloronaphthalene	10	U	1.2	10
2-Chlorophenol	10	U	0.38	10
2-Methylnaphthalene	10	U	1.1	10
2-Methylphenol	10	U	0.26	10
2-Nitroaniline	10	U	0.47	10
2-Nitrophenol	10	U	0.75	10
3,3'-Dichlorobenzidine	10	U *	1.4	10
3-Nitroaniline	10	U	0.96	10
4,6-Dinitro-2-methylphenol	20	U	13	20
4-Bromophenyl phenyl ether	10	U	0.75	10
4-Chloro-3-methylphenol	10	U	0.58	10
4-Chloroaniline	10	U *	1.9	10
4-Chlorophenyl phenyl ether	10	U	1.3	10
4-Methylphenol	10	U	0.24	10
4-Nitroaniline	10	U	0.54	10
4-Nitrophenol	20	U	0.69	20
Acenaphthene	10	U	1.1	10
Acenaphthylene	10	U	0.82	10
Acetophenone	10	U	0.79	10
Anthracene	10	U	0.63	10
Atrazine	2.0	U	1.3	2.0
Benzaldehyde	10	U *	0.59	10
Benzo[a]anthracene	1.0	U	0.59	1.0
Benzo[a]pyrene	1.0	U	0.41	1.0
Benzo[b]fluoranthene	2.0	U	1.1	2.0
Benzo[g,h,i]perylene	10	U	1.4	10
Benzo[k]fluoranthene	1.0	U	0.67	1.0
Bis(2-chloroethoxy)methane	10	U	0.24	10
Bis(2-chloroethyl)ether	1.0	U	0.30	1.0
Bis(2-ethylhexyl) phthalate	2.0	U	1.7	2.0
Butyl benzyl phthalate	10	U	0.85	10
Caprolactam	10	U	0.68	10
Carbazole	10	U	0.68	10
Chrysene	2.0	U	0.91	2.0
Dibenz(a,h)anthracene	1.0	U	0.72	1.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-006**

Lab Sample ID: 460-156817-6

Date Sampled: 05/23/2018 1455

Client Matrix: Water

Date Received: 05/23/2018 2050

### 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D	Analysis Batch: 460-522695	Instrument ID: CBNAMS16
Prep Method: 3510C	Prep Batch: 460-522606	Lab File ID: A153364.D
Dilution: 1.0		Initial Weight/Volume: 250 mL
Analysis Date: 05/26/2018 0535		Final Weight/Volume: 2 mL
Prep Date: 05/25/2018 1617		Injection Volume: 5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	10	U	1.1	10
Diethyl phthalate	10	U	0.98	10
Dimethyl phthalate	10	U	0.77	10
Di-n-butyl phthalate	10	U	0.84	10
Di-n-octyl phthalate	10	U	4.8	10
Fluoranthene	10	U	0.84	10
Fluorene	10	U	0.91	10
Hexachlorobenzene	1.0	U	0.40	1.0
Hexachlorobutadiene	1.0	U	0.78	1.0
Hexachlorocyclopentadiene	10	U	1.7	10
Hexachloroethane	2.0	U	1.2	2.0
Indeno[1,2,3-cd]pyrene	2.0	U	1.3	2.0
Isophorone	10	U	0.80	10
Naphthalene	10	U	1.1	10
Nitrobenzene	1.0	U	0.57	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.43	1.0
N-Nitrosodiphenylamine	10	U	0.89	10
Pentachlorophenol	20	U	1.4	20
Phenanthrene	10	U	0.58	10
Phenol	10	U	0.29	10
Pyrene	10	U	1.6	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)	128		26 - 139	
2-Fluorobiphenyl	126	X	45 - 107	
2-Fluorophenol (Surr)	54		25 - 58	
Nitrobenzene-d5 (Surr)	129	X	51 - 108	
Phenol-d5 (Surr)	35		14 - 39	
Terphenyl-d14 (Surr)	161	X	40 - 148	



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: EB-003**

Lab Sample ID: 460-156817-7

Date Sampled: 05/23/2018 1130

Client Matrix: Water

Date Received: 05/23/2018 2050

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153365.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/26/2018 0556			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	10	U	1.2	10
1,2,4,5-Tetrachlorobenzene	10	U	1.2	10
2,2'-oxybis[1-chloropropane]	10	U	0.63	10
2,3,4,6-Tetrachlorophenol	10	U	0.75	10
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	10	U	0.30	10
2,4-Dichlorophenol	10	U	0.42	10
2,4-Dimethylphenol	10	U	0.24	10
2,4-Dinitrophenol	20	U	14	20
2,4-Dinitrotoluene	2.0	U	1.0	2.0
2,6-Dinitrotoluene	2.0	U	0.39	2.0
2-Chloronaphthalene	10	U	1.2	10
2-Chlorophenol	10	U	0.38	10
2-Methylnaphthalene	10	U	1.1	10
2-Methylphenol	10	U	0.26	10
2-Nitroaniline	10	U	0.47	10
2-Nitrophenol	10	U	0.75	10
3,3'-Dichlorobenzidine	10	U *	1.4	10
3-Nitroaniline	10	U	0.96	10
4,6-Dinitro-2-methylphenol	20	U	13	20
4-Bromophenyl phenyl ether	10	U	0.75	10
4-Chloro-3-methylphenol	10	U	0.58	10
4-Chloroaniline	10	U *	1.9	10
4-Chlorophenyl phenyl ether	10	U	1.3	10
4-Methylphenol	10	U	0.24	10
4-Nitroaniline	10	U	0.54	10
4-Nitrophenol	20	U	0.69	20
Acenaphthene	10	U	1.1	10
Acenaphthylene	10	U	0.82	10
Acetophenone	10	U	0.79	10
Anthracene	10	U	0.63	10
Atrazine	2.0	U	1.3	2.0
Benzaldehyde	10	U *	0.59	10
Benzo[a]anthracene	1.0	U	0.59	1.0
Benzo[a]pyrene	1.0	U	0.41	1.0
Benzo[b]fluoranthene	2.0	U	1.1	2.0
Benzo[g,h,i]perylene	10	U	1.4	10
Benzo[k]fluoranthene	1.0	U	0.67	1.0
Bis(2-chloroethoxy)methane	10	U	0.24	10
Bis(2-chloroethyl)ether	1.0	U	0.30	1.0
Bis(2-ethylhexyl) phthalate	2.0	U	1.7	2.0
Butyl benzyl phthalate	10	U	0.85	10
Caprolactam	10	U	0.68	10
Carbazole	10	U	0.68	10
Chrysene	2.0	U	0.91	2.0
Dibenz(a,h)anthracene	1.0	U	0.72	1.0



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: EB-003

Lab Sample ID: 460-156817-7

Client Matrix: Water

Date Sampled: 05/23/2018 1130

Date Received: 05/23/2018 2050

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153365.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/26/2018 0556			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	10	U	1.1	10
Diethyl phthalate	10	U	0.98	10
Dimethyl phthalate	10	U	0.77	10
Di-n-butyl phthalate	10	U	0.84	10
Di-n-octyl phthalate	10	U	4.8	10
Fluoranthene	10	U	0.84	10
Fluorene	10	U	0.91	10
Hexachlorobenzene	1.0	U	0.40	1.0
Hexachlorobutadiene	1.0	U	0.78	1.0
Hexachlorocyclopentadiene	10	U	1.7	10
Hexachloroethane	2.0	U	1.2	2.0
Indeno[1,2,3-cd]pyrene	2.0	U	1.3	2.0
Isophorone	10	U	0.80	10
Naphthalene	10	U	1.1	10
Nitrobenzene	1.0	U	0.57	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.43	1.0
N-Nitrosodiphenylamine	10	U	0.89	10
Pentachlorophenol	20	U	1.4	20
Phenanthrene	10	U	0.58	10
Phenol	10	U	0.29	10
Pyrene	10	U	1.6	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)	145	X	26 - 139	
2-Fluorobiphenyl	131	X	45 - 107	
2-Fluorophenol (Surr)	61	X	25 - 58	
Nitrobenzene-d5 (Surr)	136	X	51 - 108	
Phenol-d5 (Surr)	38		14 - 39	
Terphenyl-d14 (Surr)	169	X	40 - 148	



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: DUP-005**

Lab Sample ID: 460-156817-8

Date Sampled: 05/23/2018 0000

Client Matrix: Water

Date Received: 05/23/2018 2050

**8270D Semivolatile Organic Compounds (GC/MS)**

Analysis Method: 8270D

Analysis Batch: 460-522695

Instrument ID: CBNAMS16

Prep Method: 3510C

Prep Batch: 460-522606

Lab File ID: A153366.D

Dilution: 1.0

Initial Weight/Volume: 250 mL

Analysis Date: 05/26/2018 0617

Final Weight/Volume: 2 mL

Prep Date: 05/25/2018 1617

Injection Volume: 5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1'-Biphenyl	10	U	1.2	10
1,2,4,5-Tetrachlorobenzene	10	U	1.2	10
2,2'-oxybis[1-chloropropane]	10	U	0.63	10
2,3,4,6-Tetrachlorophenol	10	U	0.75	10
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	10	U	0.30	10
2,4-Dichlorophenol	10	U	0.42	10
2,4-Dimethylphenol	10	U	0.24	10
2,4-Dinitrophenol	20	U	14	20
2,4-Dinitrotoluene	2.0	U	1.0	2.0
2,6-Dinitrotoluene	2.0	U	0.39	2.0
2-Chloronaphthalene	10	U	1.2	10
2-Chlorophenol	10	U	0.38	10
2-Methylnaphthalene	10	U	1.1	10
2-Methylphenol	10	U	0.26	10
2-Nitroaniline	10	U	0.47	10
2-Nitrophenol	10	U	0.75	10
3,3'-Dichlorobenzidine	10	U *	1.4	10
3-Nitroaniline	10	U	0.96	10
4,6-Dinitro-2-methylphenol	20	U	13	20
4-Bromophenyl phenyl ether	10	U	0.75	10
4-Chloro-3-methylphenol	10	U	0.58	10
4-Chloroaniline	10	U *	1.9	10
4-Chlorophenyl phenyl ether	10	U	1.3	10
4-Methylphenol	10	U	0.24	10
4-Nitroaniline	10	U	0.54	10
4-Nitrophenol	20	U	0.69	20
Acenaphthene	10	U	1.1	10
Acenaphthylene	10	U	0.82	10
Acetophenone	10	U	0.79	10
Anthracene	10	U	0.63	10
Atrazine	2.0	U	1.3	2.0
Benzaldehyde	10	U *	0.59	10
Benzo[a]anthracene	1.0	U	0.59	1.0
Benzo[a]pyrene	1.0	U	0.41	1.0
Benzo[b]fluoranthene	2.0	U	1.1	2.0
Benzo[g,h,i]perylene	10	U	1.4	10
Benzo[k]fluoranthene	1.0	U	0.67	1.0
Bis(2-chloroethoxy)methane	10	U	0.24	10
Bis(2-chloroethyl)ether	1.0	U	0.30	1.0
Bis(2-ethylhexyl) phthalate	2.0	U	1.7	2.0
Butyl benzyl phthalate	10	U	0.85	10
Caprolactam	10	U	0.68	10
Carbazole	10	U	0.68	10
Chrysene	2.0	U	0.91	2.0
Dibenz(a,h)anthracene	1.0	U	0.72	1.0



# Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: DUP-005

Lab Sample ID: 460-156817-8

Client Matrix: Water

Date Sampled: 05/23/2018 0000

Date Received: 05/23/2018 2050

## 8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	460-522695	Instrument ID:	CBNAMS16
Prep Method:	3510C	Prep Batch:	460-522606	Lab File ID:	A153366.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/26/2018 0617			Final Weight/Volume:	2 mL
Prep Date:	05/25/2018 1617			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	10	U	1.1	10
Diethyl phthalate	10	U	0.98	10
Dimethyl phthalate	10	U	0.77	10
Di-n-butyl phthalate	10	U	0.84	10
Di-n-octyl phthalate	10	U	4.8	10
Fluoranthene	10	U	0.84	10
Fluorene	10	U	0.91	10
Hexachlorobenzene	1.0	U	0.40	1.0
Hexachlorobutadiene	1.0	U	0.78	1.0
Hexachlorocyclopentadiene	10	U	1.7	10
Hexachloroethane	2.0	U	1.2	2.0
Indeno[1,2,3-cd]pyrene	2.0	U	1.3	2.0
Isophorone	10	U	0.80	10
Naphthalene	10	U	1.1	10
Nitrobenzene	1.0	U	0.57	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.43	1.0
N-Nitrosodiphenylamine	10	U	0.89	10
Pentachlorophenol	20	U	1.4	20
Phenanthrene	10	U	0.58	10
Phenol	10	U	0.29	10
Pyrene	10	U	1.6	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
2,4,6-Tribromophenol (Surr)	136		26 - 139	
2-Fluorobiphenyl	134	X	45 - 107	
2-Fluorophenol (Surr)	61	X	25 - 58	
Nitrobenzene-d5 (Surr)	137	X	51 - 108	
Phenol-d5 (Surr)	41	X	14 - 39	
Terphenyl-d14 (Surr)	169	X	40 - 148	



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-001

Lab Sample ID: 460-156817-1

Client Matrix: Water

Date Sampled: 05/23/2018 1005

Date Received: 05/23/2018 2050

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-523375	Instrument ID:	CPESTGC5
Prep Method:	3510C	Prep Batch:	460-522475	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/29/2018 2006			Injection Volume:	1 uL
Prep Date:	05/25/2018 0719			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	92		10 - 150
Tetrachloro-m-xylene	93		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-001**

Lab Sample ID: 460-156817-1

Date Sampled: 05/23/2018 1005

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523375

Instrument ID: CPESTGC5

Prep Method: 3510C

Prep Batch: 460-522475

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 1 mL

Analysis Date: 05/29/2018 2006

Injection Volume: 1 uL

Prep Date: 05/25/2018 0719

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	87		10 - 150
Tetrachloro-m-xylene	91		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-002

Lab Sample ID: 460-156817-2

Client Matrix: Water

Date Sampled: 05/23/2018 1120

Date Received: 05/23/2018 2050

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-523375	Instrument ID:	CPESTGC5
Prep Method:	3510C	Prep Batch:	460-522475	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/29/2018 2019			Injection Volume:	1 uL
Prep Date:	05/25/2018 0719			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	100		10 - 150
Tetrachloro-m-xylene	90		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-002**

Lab Sample ID: 460-156817-2

Date Sampled: 05/23/2018 1120

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523375

Instrument ID: CPESTGC5

Prep Method: 3510C

Prep Batch: 460-522475

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 1 mL

Analysis Date: 05/29/2018 2019

Injection Volume: 1 uL

Prep Date: 05/25/2018 0719

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	94		10 - 150
Tetrachloro-m-xylene	89		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-003

Lab Sample ID: 460-156817-3

Client Matrix: Water

Date Sampled: 05/23/2018 1230

Date Received: 05/23/2018 2050

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-523375	Instrument ID:	CPESTGC5
Prep Method:	3510C	Prep Batch:	460-522475	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/29/2018 2032			Injection Volume:	1 uL
Prep Date:	05/25/2018 0719			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	104		10 - 150
Tetrachloro-m-xylene	93		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-003**

Lab Sample ID: 460-156817-3

Date Sampled: 05/23/2018 1230

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523375

Instrument ID: CPESTGC5

Prep Method: 3510C

Prep Batch: 460-522475

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 1 mL

Analysis Date: 05/29/2018 2032

Injection Volume: 1 uL

Prep Date: 05/25/2018 0719

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	97		10 - 150
Tetrachloro-m-xylene	89		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-004

Lab Sample ID: 460-156817-4

Client Matrix: Water

Date Sampled: 05/23/2018 1320

Date Received: 05/23/2018 2050

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-523375	Instrument ID:	CPESTGC5
Prep Method:	3510C	Prep Batch:	460-522475	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/29/2018 2045			Injection Volume:	1 uL
Prep Date:	05/25/2018 0719			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	101		10 - 150
Tetrachloro-m-xylene	91		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-004**

Lab Sample ID: 460-156817-4

Client Matrix: Water

Date Sampled: 05/23/2018 1320

Date Received: 05/23/2018 2050

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3510C

Dilution: 1.0

Analysis Date: 05/29/2018 2045

Prep Date: 05/25/2018 0719

Analysis Batch: 460-523375

Prep Batch: 460-522475

Instrument ID: CPESTGC5

Initial Weight/Volume: 250 mL

Final Weight/Volume: 1 mL

Injection Volume: 1 uL

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	94		10 - 150
Tetrachloro-m-xylene	90		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-005

Lab Sample ID: 460-156817-5

Client Matrix: Water

Date Sampled: 05/23/2018 1410

Date Received: 05/23/2018 2050

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-523375	Instrument ID:	CPESTGC5
Prep Method:	3510C	Prep Batch:	460-522475	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/29/2018 2057			Injection Volume:	1 uL
Prep Date:	05/25/2018 0719			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	100		10 - 150
Tetrachloro-m-xylene	86		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-005**

Lab Sample ID: 460-156817-5

Date Sampled: 05/23/2018 1410

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523375

Instrument ID: CPESTGC5

Prep Method: 3510C

Prep Batch: 460-522475

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 1 mL

Analysis Date: 05/29/2018 2057

Injection Volume: 1 uL

Prep Date: 05/25/2018 0719

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	94		10 - 150
Tetrachloro-m-xylene	86		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-006

Lab Sample ID: 460-156817-6

Client Matrix: Water

Date Sampled: 05/23/2018 1455

Date Received: 05/23/2018 2050

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-523375	Instrument ID:	CPESTGC5
Prep Method:	3510C	Prep Batch:	460-522475	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/29/2018 2110			Injection Volume:	1 uL
Prep Date:	05/25/2018 0719			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	101		10 - 150
Tetrachloro-m-xylene	87		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-006**

Lab Sample ID: 460-156817-6

Date Sampled: 05/23/2018 1455

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523375

Instrument ID: CPESTGC5

Prep Method: 3510C

Prep Batch: 460-522475

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 1 mL

Analysis Date: 05/29/2018 2110

Injection Volume: 1 uL

Prep Date: 05/25/2018 0719

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	97		10 - 150
Tetrachloro-m-xylene	85		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: EB-003

Lab Sample ID: 460-156817-7

Client Matrix: Water

Date Sampled: 05/23/2018 1130

Date Received: 05/23/2018 2050

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-523574	Instrument ID:	CPESTGC5
Prep Method:	3510C	Prep Batch:	460-522746	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/30/2018 1344			Injection Volume:	1 uL
Prep Date:	05/26/2018 0019			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	72		10 - 150
Tetrachloro-m-xylene	68		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: EB-003**

Lab Sample ID: 460-156817-7

Date Sampled: 05/23/2018 1130

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523574

Instrument ID: CPESTGC5

Prep Method: 3510C

Prep Batch: 460-522746

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 1 mL

Analysis Date: 05/30/2018 1344

Injection Volume: 1 uL

Prep Date: 05/26/2018 0019

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	71		10 - 150
Tetrachloro-m-xylene	66		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: DUP-005**

Lab Sample ID: 460-156817-8

Date Sampled: 05/23/2018 0000

Client Matrix: Water

Date Received: 05/23/2018 2050

### 8081B Organochlorine Pesticides (GC)

Analysis Method:	8081B	Analysis Batch:	460-523375	Instrument ID:	CPESTGC5
Prep Method:	3510C	Prep Batch:	460-522475	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	05/29/2018 2123			Injection Volume:	1 uL
Prep Date:	05/25/2018 0719			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	103		10 - 150
Tetrachloro-m-xylene	85		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: DUP-005**

Lab Sample ID: 460-156817-8

Date Sampled: 05/23/2018 0000

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-523375

Instrument ID: CPESTGC5

Prep Method: 3510C

Prep Batch: 460-522475

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 1 mL

Analysis Date: 05/29/2018 2123

Injection Volume: 1 uL

Prep Date: 05/25/2018 0719

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	94		10 - 150
Tetrachloro-m-xylene	82		12 - 136



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-001**

Lab Sample ID: 460-156817-1

Date Sampled: 05/23/2018 1005

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 1935

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	109		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-001**

Lab Sample ID: 460-156817-1

Date Sampled: 05/23/2018 1005

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 1935

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	98		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-002**

Lab Sample ID: 460-156817-2

Client Matrix: Water

Date Sampled: 05/23/2018 1120

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 1952

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	119		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-002**

Lab Sample ID: 460-156817-2

Date Sampled: 05/23/2018 1120

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 1952

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	103		54 - 150

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-003**

Lab Sample ID: 460-156817-3

Client Matrix: Water

Date Sampled: 05/23/2018 1230

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 2008

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	114		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-003**

Lab Sample ID: 460-156817-3

Date Sampled: 05/23/2018 1230

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 2008

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	98		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-004

Lab Sample ID: 460-156817-4

Client Matrix: Water

Date Sampled: 05/23/2018 1320

Date Received: 05/23/2018 2050

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 2025

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	109		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-004**

Lab Sample ID: 460-156817-4

Client Matrix: Water

Date Sampled: 05/23/2018 1320

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Prep Method: 8151A

Dilution: 1.0

Analysis Date: 05/25/2018 2025

Prep Date: 05/25/2018 0110

Analysis Batch: 460-522608

Prep Batch: 460-522379

Instrument ID: CPESTGC1

Initial Weight/Volume: 250 mL

Final Weight/Volume: 3 mL

Injection Volume: 1 uL

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	99		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-005**

Lab Sample ID: 460-156817-5

Client Matrix: Water

Date Sampled: 05/23/2018 1410

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 2041

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	116		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-005**

Lab Sample ID: 460-156817-5

Date Sampled: 05/23/2018 1410

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 2041

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	103		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-006**

Lab Sample ID: 460-156817-6

Client Matrix: Water

Date Sampled: 05/23/2018 1455

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 2058

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	105		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-006**

Lab Sample ID: 460-156817-6

Date Sampled: 05/23/2018 1455

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 2058

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	93		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: EB-003**

Lab Sample ID: 460-156817-7

Date Sampled: 05/23/2018 1130

Client Matrix: Water

Date Received: 05/23/2018 2050

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 2114

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	128		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: EB-003**

Lab Sample ID: 460-156817-7

Date Sampled: 05/23/2018 1130

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 2114

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	121		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: DUP-005**

Lab Sample ID: 460-156817-8

Client Matrix: Water

Date Sampled: 05/23/2018 0000

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 2131

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	68		54 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: DUP-005**

Lab Sample ID: 460-156817-8

Date Sampled: 05/23/2018 0000

Client Matrix: Water

Date Received: 05/23/2018 2050

---

### 8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 460-522608

Instrument ID: CPESTGC1

Prep Method: 8151A

Prep Batch: 460-522379

Initial Weight/Volume: 250 mL

Dilution: 1.0

Final Weight/Volume: 3 mL

Analysis Date: 05/25/2018 2131

Injection Volume: 1 uL

Prep Date: 05/25/2018 0110

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	64		54 - 150



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-001**

Lab Sample ID: 460-156817-1

Client Matrix: Water

Date Sampled: 05/23/2018 1005

Date Received: 05/23/2018 2050

**6020A Metals (ICP/MS)**

Analysis Method:	6020A	Analysis Batch:	460-524183	Instrument ID:	ICPMS2
Prep Method:	3010A	Prep Batch:	460-523788	Lab File ID:	066SMPL.D
Dilution:	2.0			Initial Weight/Volume:	50 mL
Analysis Date:	05/31/2018 2330			Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 2230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	2.9		0.62	2.0
Arsenic	2.0	U	0.77	2.0
Barium	24.2		1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Lead	1.2	U	0.37	1.2
Selenium	10.0	U	0.69	10.0
Silver	2.0	U	1.4	2.0
Thallium	0.80	U	0.24	0.80

Analysis Method:	6020A	Analysis Batch:	460-524275	Instrument ID:	ICPMS2
Prep Method:	3010A	Prep Batch:	460-523788	Lab File ID:	040SMPL.D
Dilution:	2.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/01/2018 0442			Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 2230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	62.5		15.0	40.0
Calcium	11000		67.6	200
Chromium	4.0	U	1.3	4.0
Cobalt	1.4	J	1.3	4.0
Copper	7.5		1.9	4.0
Iron	175		45.7	120
Magnesium	3670		65.7	200
Manganese	335		2.7	8.0
Nickel	3.5	J	1.3	4.0
Potassium	3820		64.9	200
Sodium	10400		75.7	200
Vanadium	4.0	U	1.2	4.0
Zinc	5.6	J	5.4	16.0

**6020A Metals (ICP/MS)-Dissolved**

Analysis Method:	6020A	Analysis Batch:	460-524063	Instrument ID:	ICPMS1
Prep Method:	3010A	Prep Batch:	460-523620	Lab File ID:	059SMPL.D
Dilution:	2.0			Initial Weight/Volume:	10 mL
Analysis Date:	05/31/2018 1841			Final Weight/Volume:	10 mL
Prep Date:	05/30/2018 1139				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.0	U	1.4	2.0
Arsenic	2.0	U	0.77	2.0
Barium	25.8		1.1	4.0
Beryllium	0.80	U	0.26	0.80



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-001**

Lab Sample ID: 460-156817-1

Date Sampled: 05/23/2018 1005

Client Matrix: Water

Date Received: 05/23/2018 2050

**6020A Metals (ICP/MS)-Dissolved**

Analyte	Result (ug/L)	Qualifier	MDL	RL
Cadmium	2.0	U	0.61	2.0
Cobalt	1.3	J	1.3	4.0
Chromium	4.0	U	1.3	4.0
Copper	3.5	J	1.9	4.0
Manganese	312		2.7	8.0
Nickel	3.0	J	1.3	4.0
Lead	1.2	U	0.37	1.2
Antimony	2.0	U	0.62	2.0
Selenium	10.0	U	0.69	10.0
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0
Aluminum	40.0	U	15.0	40.0
Sodium	9810		75.7	200
Magnesium	3770		65.7	200
Potassium	3550		64.9	200
Calcium	11000		67.6	200
Iron	120	U	45.7	120
Thallium	0.80	U	0.24	0.80

**7470A Mercury (CVAA)**

Analysis Method: 7470A	Analysis Batch: 460-524421	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524351	Lab File ID: 524351hg1.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/01/2018 1448		Final Weight/Volume: 30 mL
Prep Date: 06/01/2018 1241		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

**7470A Mercury (CVAA)-Dissolved**

Analysis Method: 7470A	Analysis Batch: 460-524653	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524602	Lab File ID: 524594hg.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/02/2018 2002		Final Weight/Volume: 30 mL
Prep Date: 06/02/2018 1258		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-002**

Lab Sample ID: 460-156817-2

Date Sampled: 05/23/2018 1120

Client Matrix: Water

Date Received: 05/23/2018 2050

**6020A Metals (ICP/MS)**

Analysis Method:	6020A	Analysis Batch:	460-524183	Instrument ID:	ICPMS2
Prep Method:	3010A	Prep Batch:	460-523788	Lab File ID:	068SMPL.D
Dilution:	2.0			Initial Weight/Volume:	50 mL
Analysis Date:	05/31/2018 2337			Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 2230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	2.7		0.62	2.0
Arsenic	2.0	U	0.77	2.0
Barium	20.0		1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Lead	1.2	U	0.37	1.2
Selenium	10.0	U	0.69	10.0
Silver	2.0	U	1.4	2.0
Thallium	0.80	U	0.24	0.80

Analysis Method:	6020A	Analysis Batch:	460-524275	Instrument ID:	ICPMS2
Prep Method:	3010A	Prep Batch:	460-523788	Lab File ID:	042SMPL.D
Dilution:	2.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/01/2018 0449			Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 2230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	17.9	J	15.0	40.0
Calcium	9280		67.6	200
Chromium	1.3	J	1.3	4.0
Cobalt	4.0	U	1.3	4.0
Copper	2.0	J	1.9	4.0
Iron	52.2	J	45.7	120
Magnesium	4070		65.7	200
Manganese	9.5		2.7	8.0
Nickel	4.0	U	1.3	4.0
Potassium	5640		64.9	200
Sodium	17000		75.7	200
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0

**6020A Metals (ICP/MS)-Dissolved**

Analysis Method:	6020A	Analysis Batch:	460-524063	Instrument ID:	ICPMS1
Prep Method:	3010A	Prep Batch:	460-523620	Lab File ID:	060SMPL.D
Dilution:	2.0			Initial Weight/Volume:	10 mL
Analysis Date:	05/31/2018 1844			Final Weight/Volume:	10 mL
Prep Date:	05/30/2018 1139				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.0	U	1.4	2.0
Arsenic	2.0	U	0.77	2.0
Barium	20.9		1.1	4.0
Beryllium	0.80	U	0.26	0.80



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-002**

Lab Sample ID: 460-156817-2

Date Sampled: 05/23/2018 1120

Client Matrix: Water

Date Received: 05/23/2018 2050

**6020A Metals (ICP/MS)-Dissolved**

Analyte	Result (ug/L)	Qualifier	MDL	RL
Cadmium	2.0	U	0.61	2.0
Cobalt	4.0	U	1.3	4.0
Chromium	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Manganese	7.6	J	2.7	8.0
Nickel	4.0	U	1.3	4.0
Lead	1.2	U	0.37	1.2
Antimony	2.0	U	0.62	2.0
Selenium	10.0	U	0.69	10.0
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0
Aluminum	40.0	U	15.0	40.0
Sodium	16300		75.7	200
Magnesium	4220		65.7	200
Potassium	5620		64.9	200
Calcium	9190		67.6	200
Iron	120	U	45.7	120
Thallium	0.80	U	0.24	0.80

**7470A Mercury (CVAA)**

Analysis Method: 7470A	Analysis Batch: 460-524421	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524351	Lab File ID: 524351hg1.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/01/2018 1450		Final Weight/Volume: 30 mL
Prep Date: 06/01/2018 1241		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

**7470A Mercury (CVAA)-Dissolved**

Analysis Method: 7470A	Analysis Batch: 460-524653	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524602	Lab File ID: 524594hg.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/02/2018 2004		Final Weight/Volume: 30 mL
Prep Date: 06/02/2018 1258		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-003**

Lab Sample ID: 460-156817-3

Client Matrix: Water

Date Sampled: 05/23/2018 1230

Date Received: 05/23/2018 2050

**6020A Metals (ICP/MS)**

Analysis Method:	6020A	Analysis Batch:	460-524183	Instrument ID:	ICPMS2
Prep Method:	3010A	Prep Batch:	460-523788	Lab File ID:	070SMPL.D
Dilution:	2.0			Initial Weight/Volume:	50 mL
Analysis Date:	05/31/2018 2343			Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 2230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	2.4		0.62	2.0
Arsenic	2.0	U	0.77	2.0
Barium	18.8		1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Lead	1.2	U	0.37	1.2
Selenium	10.0	U	0.69	10.0
Silver	2.0	U	1.4	2.0
Thallium	0.80	U	0.24	0.80

Analysis Method:	6020A	Analysis Batch:	460-524275	Instrument ID:	ICPMS2
Prep Method:	3010A	Prep Batch:	460-523788	Lab File ID:	044SMPL.D
Dilution:	2.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/01/2018 0455			Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 2230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	23.6	J	15.0	40.0
Calcium	8070		67.6	200
Chromium	1.9	J	1.3	4.0
Cobalt	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Iron	66.9	J	45.7	120
Magnesium	3430		65.7	200
Manganese	19.5		2.7	8.0
Nickel	1.4	J	1.3	4.0
Potassium	3840		64.9	200
Sodium	12500		75.7	200
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0

**6020A Metals (ICP/MS)-Dissolved**

Analysis Method:	6020A	Analysis Batch:	460-524063	Instrument ID:	ICPMS1
Prep Method:	3010A	Prep Batch:	460-523620	Lab File ID:	061SMPL.D
Dilution:	2.0			Initial Weight/Volume:	10 mL
Analysis Date:	05/31/2018 1846			Final Weight/Volume:	10 mL
Prep Date:	05/30/2018 1139				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.0	U	1.4	2.0
Arsenic	2.0	U	0.77	2.0
Barium	19.2		1.1	4.0
Beryllium	0.80	U	0.26	0.80



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-003

Lab Sample ID: 460-156817-3

Client Matrix: Water

Date Sampled: 05/23/2018 1230

Date Received: 05/23/2018 2050

### 6020A Metals (ICP/MS)-Dissolved

Analyte	Result (ug/L)	Qualifier	MDL	RL
Cadmium	2.0	U	0.61	2.0
Cobalt	4.0	U	1.3	4.0
Chromium	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Manganese	17.9		2.7	8.0
Nickel	4.0	U	1.3	4.0
Lead	1.2	U	0.37	1.2
Antimony	2.0	U	0.62	2.0
Selenium	10.0	U	0.69	10.0
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0
Aluminum	40.0	U	15.0	40.0
Sodium	11800		75.7	200
Magnesium	3510		65.7	200
Potassium	3540		64.9	200
Calcium	8030		67.6	200
Iron	120	U	45.7	120
Thallium	0.80	U	0.24	0.80

### 7470A Mercury (CVAA)

Analysis Method: 7470A	Analysis Batch: 460-524421	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524351	Lab File ID: 524351hg1.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/01/2018 1456		Final Weight/Volume: 30 mL
Prep Date: 06/01/2018 1241		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

### 7470A Mercury (CVAA)-Dissolved

Analysis Method: 7470A	Analysis Batch: 460-524653	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524602	Lab File ID: 524594hg.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/02/2018 2005		Final Weight/Volume: 30 mL
Prep Date: 06/02/2018 1258		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-004**

Lab Sample ID: 460-156817-4

Date Sampled: 05/23/2018 1320

Client Matrix: Water

Date Received: 05/23/2018 2050

**6020A Metals (ICP/MS)**

Analysis Method: 6020A

Analysis Batch: 460-524460

Instrument ID: ICPMS1

Prep Method: 3010A

Prep Batch: 460-523825

Lab File ID: 047SMPL.D

Dilution: 2.0

Initial Weight/Volume: 50 mL

Analysis Date: 06/01/2018 1816

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0100

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	26.5	J	15.0	40.0
Antimony	2.0	U	0.62	2.0
Arsenic	2.0	U	0.77	2.0
Barium	22.0		1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Calcium	11600		67.6	200
Chromium	1.3	J	1.3	4.0
Cobalt	4.0	U	1.3	4.0
Copper	3.0	J	1.9	4.0
Iron	60.7	J	45.7	120
Lead	1.2	U	0.37	1.2
Magnesium	5120		65.7	200
Manganese	23.5		2.7	8.0
Nickel	4.0	U	1.3	4.0
Potassium	4210		64.9	200
Selenium	10.0	U	0.69	10.0
Silver	2.0	U	1.4	2.0
Sodium	13200		75.7	200
Thallium	0.80	U	0.24	0.80
Vanadium	1.2	J	1.2	4.0
Zinc	16.0	U	5.4	16.0

**6020A Metals (ICP/MS)-Dissolved**

Analysis Method: 6020A

Analysis Batch: 460-524063

Instrument ID: ICPMS1

Prep Method: 3010A

Prep Batch: 460-523620

Lab File ID: 063SMPL.D

Dilution: 2.0

Initial Weight/Volume: 10 mL

Analysis Date: 05/31/2018 1852

Final Weight/Volume: 10 mL

Prep Date: 05/30/2018 1139

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.0	U	1.4	2.0
Arsenic	2.0	U	0.77	2.0
Barium	22.9		1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Cobalt	4.0	U	1.3	4.0
Chromium	4.0	U	1.3	4.0
Copper	1.9	J	1.9	4.0
Manganese	22.7		2.7	8.0
Nickel	4.0	U	1.3	4.0
Lead	1.2	U	0.37	1.2
Antimony	2.0	U	0.62	2.0
Selenium	10.0	U	0.69	10.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-004

Lab Sample ID: 460-156817-4

Client Matrix: Water

Date Sampled: 05/23/2018 1320

Date Received: 05/23/2018 2050

### 6020A Metals (ICP/MS)-Dissolved

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0
Aluminum	40.0	U	15.0	40.0
Sodium	12700		75.7	200
Magnesium	4920		65.7	200
Potassium	4280		64.9	200
Calcium	11900		67.6	200
Iron	120	U	45.7	120
Thallium	0.80	U	0.24	0.80

### 7470A Mercury (CVAA)

Analysis Method: 7470A	Analysis Batch: 460-524421	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524351	Lab File ID: 524351hg1.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/01/2018 1458		Final Weight/Volume: 30 mL
Prep Date: 06/01/2018 1241		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

### 7470A Mercury (CVAA)-Dissolved

Analysis Method: 7470A	Analysis Batch: 460-524653	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524602	Lab File ID: 524594hg.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/02/2018 2011		Final Weight/Volume: 30 mL
Prep Date: 06/02/2018 1258		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-005**

Lab Sample ID: 460-156817-5

Date Sampled: 05/23/2018 1410

Client Matrix: Water

Date Received: 05/23/2018 2050

**6020A Metals (ICP/MS)**

Analysis Method: 6020A

Analysis Batch: 460-524460

Instrument ID: ICPMS1

Prep Method: 3010A

Prep Batch: 460-523825

Lab File ID: 049SMPL.D

Dilution: 2.0

Initial Weight/Volume: 50 mL

Analysis Date: 06/01/2018 1822

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0100

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	19.1	J	15.0	40.0
Antimony	2.0	U	0.62	2.0
Arsenic	2.0	U	0.77	2.0
Barium	21.3		1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Calcium	7400		67.6	200
Chromium	4.0	U	1.3	4.0
Cobalt	4.0	U	1.3	4.0
Copper	2.4	J	1.9	4.0
Iron	120	U	45.7	120
Lead	1.2	U	0.37	1.2
Magnesium	3510		65.7	200
Manganese	67.2		2.7	8.0
Nickel	4.0	U	1.3	4.0
Potassium	4880		64.9	200
Selenium	10.0	U	0.69	10.0
Silver	2.0	U	1.4	2.0
Sodium	16200		75.7	200
Thallium	0.80	U	0.24	0.80
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0

**6020A Metals (ICP/MS)-Dissolved**

Analysis Method: 6020A

Analysis Batch: 460-524063

Instrument ID: ICPMS1

Prep Method: 3010A

Prep Batch: 460-523620

Lab File ID: 067SMPL.D

Dilution: 2.0

Initial Weight/Volume: 10 mL

Analysis Date: 05/31/2018 1903

Final Weight/Volume: 10 mL

Prep Date: 05/30/2018 1139

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.0	U	1.4	2.0
Arsenic	2.0	U	0.77	2.0
Barium	22.1		1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Cobalt	4.0	U	1.3	4.0
Chromium	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Manganese	65.4		2.7	8.0
Nickel	4.0	U	1.3	4.0
Lead	1.2	U	0.37	1.2
Antimony	2.0	U	0.62	2.0
Selenium	10.0	U	0.69	10.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-005

Lab Sample ID: 460-156817-5

Client Matrix: Water

Date Sampled: 05/23/2018 1410

Date Received: 05/23/2018 2050

### 6020A Metals (ICP/MS)-Dissolved

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0
Aluminum	40.0	U	15.0	40.0
Sodium	15500		75.7	200
Magnesium	3350		65.7	200
Potassium	4730		64.9	200
Calcium	7390		67.6	200
Iron	120	U	45.7	120
Thallium	0.80	U	0.24	0.80

### 7470A Mercury (CVAA)

Analysis Method: 7470A	Analysis Batch: 460-524421	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524351	Lab File ID: 524351hg1.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/01/2018 1459		Final Weight/Volume: 30 mL
Prep Date: 06/01/2018 1241		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

### 7470A Mercury (CVAA)-Dissolved

Analysis Method: 7470A	Analysis Batch: 460-524653	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524602	Lab File ID: 524594hg.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/02/2018 2013		Final Weight/Volume: 30 mL
Prep Date: 06/02/2018 1258		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: MW-006**

Lab Sample ID: 460-156817-6

Client Matrix: Water

Date Sampled: 05/23/2018 1455

Date Received: 05/23/2018 2050

### 6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	460-524460	Instrument ID:	ICPMS1
Prep Method:	3010A	Prep Batch:	460-523825	Lab File ID:	053SMPL.D
Dilution:	2.0			Initial Weight/Volume:	50 mL
Analysis Date:	06/01/2018 1833			Final Weight/Volume:	50 mL
Prep Date:	05/31/2018 0100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	37.9	J	15.0	40.0
Antimony	2.0	U	0.62	2.0
Arsenic	2.0	U	0.77	2.0
Barium	32.0		1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Calcium	54200		67.6	200
Chromium	4.0	U	1.3	4.0
Cobalt	3.3	J	1.3	4.0
Copper	2.1	J	1.9	4.0
Iron	320		45.7	120
Lead	1.2	U	0.37	1.2
Magnesium	9250		65.7	200
Manganese	165		2.7	8.0
Nickel	4.7		1.3	4.0
Potassium	3310		64.9	200
Selenium	1.1	J	0.69	10.0
Silver	2.0	U	1.4	2.0
Sodium	23700		75.7	200
Thallium	0.80	U	0.24	0.80
Vanadium	4.0	U	1.2	4.0
Zinc	46.8		5.4	16.0

### 6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	460-524063	Instrument ID:	ICPMS1
Prep Method:	3010A	Prep Batch:	460-523620	Lab File ID:	069SMPL.D
Dilution:	2.0			Initial Weight/Volume:	10 mL
Analysis Date:	05/31/2018 1909			Final Weight/Volume:	10 mL
Prep Date:	05/30/2018 1139				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.0	U	1.4	2.0
Arsenic	2.0	U	0.77	2.0
Barium	32.9		1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Cobalt	3.2	J	1.3	4.0
Chromium	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Manganese	164		2.7	8.0
Nickel	4.4		1.3	4.0
Lead	1.2	U	0.37	1.2
Antimony	2.0	U	0.62	2.0
Selenium	0.98	J	0.69	10.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

Client Sample ID: MW-006

Lab Sample ID: 460-156817-6

Client Matrix: Water

Date Sampled: 05/23/2018 1455

Date Received: 05/23/2018 2050

### 6020A Metals (ICP/MS)-Dissolved

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vanadium	4.0	U	1.2	4.0
Zinc	48.5		5.4	16.0
Aluminum	40.0	U	15.0	40.0
Sodium	22400		75.7	200
Magnesium	8840		65.7	200
Potassium	3320		64.9	200
Calcium	54400		67.6	200
Iron	71.5	J	45.7	120
Thallium	0.80	U	0.24	0.80

### 7470A Mercury (CVAA)

Analysis Method: 7470A	Analysis Batch: 460-524421	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524351	Lab File ID: 524351hg1.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/01/2018 1501		Final Weight/Volume: 30 mL
Prep Date: 06/01/2018 1241		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

### 7470A Mercury (CVAA)-Dissolved

Analysis Method: 7470A	Analysis Batch: 460-524653	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524602	Lab File ID: 524594hg.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/02/2018 2015		Final Weight/Volume: 30 mL
Prep Date: 06/02/2018 1258		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: EB-003**

Lab Sample ID: 460-156817-7

Client Matrix: Water

Date Sampled: 05/23/2018 1130

Date Received: 05/23/2018 2050

**6020A Metals (ICP/MS)**

Analysis Method: 6020A

Analysis Batch: 460-524460

Instrument ID: ICPMS1

Prep Method: 3010A

Prep Batch: 460-523825

Lab File ID: 054SMPL.D

Dilution: 2.0

Initial Weight/Volume: 50 mL

Analysis Date: 06/01/2018 1836

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0100

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	40.0	U	15.0	40.0
Antimony	2.0	U	0.62	2.0
Arsenic	2.0	U	0.77	2.0
Barium	4.0	U	1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Chromium	4.0	U	1.3	4.0
Cobalt	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Iron	120	U	45.7	120
Lead	1.2	U	0.37	1.2
Magnesium	200	U	65.7	200
Manganese	8.0	U	2.7	8.0
Nickel	4.0	U	1.3	4.0
Potassium	200	U	64.9	200
Selenium	10.0	U	0.69	10.0
Silver	2.0	U	1.4	2.0
Sodium	200	U	75.7	200
Thallium	0.80	U	0.24	0.80
Vanadium	4.0	U	1.2	4.0

Analysis Method: 6020A

Analysis Batch: 460-525762

Instrument ID: ICPMS2

Prep Method: 3010A

Prep Batch: 460-523825

Lab File ID: 144SMPL.D

Dilution: 2.0

Initial Weight/Volume: 50 mL

Analysis Date: 06/07/2018 0459

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0100

Analyte	Result (ug/L)	Qualifier	MDL	RL
Calcium	200	U	67.6	200
Zinc	16.0	U	5.4	16.0

**6020A Metals (ICP/MS)-Dissolved**

Analysis Method: 6020A

Analysis Batch: 460-524063

Instrument ID: ICPMS1

Prep Method: 3010A

Prep Batch: 460-523620

Lab File ID: 071SMPL.D

Dilution: 2.0

Initial Weight/Volume: 10 mL

Analysis Date: 05/31/2018 1915

Final Weight/Volume: 10 mL

Prep Date: 05/30/2018 1139

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.0	U	1.4	2.0
Arsenic	2.0	U	0.77	2.0
Barium	4.0	U	1.1	4.0
Beryllium	0.80	U	0.26	0.80



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: EB-003**

Lab Sample ID: 460-156817-7

Date Sampled: 05/23/2018 1130

Client Matrix: Water

Date Received: 05/23/2018 2050

**6020A Metals (ICP/MS)-Dissolved**

Analyte	Result (ug/L)	Qualifier	MDL	RL
Cadmium	2.0	U	0.61	2.0
Cobalt	4.0	U	1.3	4.0
Chromium	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Manganese	8.0	U	2.7	8.0
Nickel	4.0	U	1.3	4.0
Lead	1.2	U	0.37	1.2
Antimony	2.0	U	0.62	2.0
Selenium	10.0	U	0.69	10.0
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0
Aluminum	40.0	U	15.0	40.0
Sodium	200	U	75.7	200
Magnesium	200	U	65.7	200
Potassium	200	U	64.9	200
Calcium	200	U	67.6	200
Iron	120	U	45.7	120
Thallium	0.80	U	0.24	0.80

**7470A Mercury (CVAA)**

Analysis Method: 7470A	Analysis Batch: 460-524421	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524351	Lab File ID: 524351hg1.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/01/2018 1503		Final Weight/Volume: 30 mL
Prep Date: 06/01/2018 1241		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

**7470A Mercury (CVAA)-Dissolved**

Analysis Method: 7470A	Analysis Batch: 460-524653	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524602	Lab File ID: 524594hg.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/02/2018 2017		Final Weight/Volume: 30 mL
Prep Date: 06/02/2018 1258		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20



**Analytical Data**

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: DUP-005**

Lab Sample ID: 460-156817-8

Date Sampled: 05/23/2018 0000

Client Matrix: Water

Date Received: 05/23/2018 2050

**6020A Metals (ICP/MS)**

Analysis Method: 6020A

Analysis Batch: 460-524460

Instrument ID: ICPMS1

Prep Method: 3010A

Prep Batch: 460-523825

Lab File ID: 055SMPL.D

Dilution: 2.0

Initial Weight/Volume: 50 mL

Analysis Date: 06/01/2018 1838

Final Weight/Volume: 50 mL

Prep Date: 05/31/2018 0100

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	21.6	J	15.0	40.0
Antimony	2.0	U	0.62	2.0
Arsenic	2.0	U	0.77	2.0
Barium	21.7		1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Calcium	11800		67.6	200
Chromium	4.0	U	1.3	4.0
Cobalt	4.0	U	1.3	4.0
Copper	2.8	J	1.9	4.0
Iron	55.7	J	45.7	120
Lead	1.2	U	0.37	1.2
Magnesium	5130		65.7	200
Manganese	23.2		2.7	8.0
Nickel	4.0	U	1.3	4.0
Potassium	4250		64.9	200
Selenium	10.0	U	0.69	10.0
Silver	2.0	U	1.4	2.0
Sodium	13300		75.7	200
Thallium	0.80	U	0.24	0.80
Vanadium	4.0	U	1.2	4.0
Zinc	8.2	J	5.4	16.0

**6020A Metals (ICP/MS)-Dissolved**

Analysis Method: 6020A

Analysis Batch: 460-524063

Instrument ID: ICPMS1

Prep Method: 3010A

Prep Batch: 460-523620

Lab File ID: 074SMPL.D

Dilution: 2.0

Initial Weight/Volume: 10 mL

Analysis Date: 05/31/2018 1923

Final Weight/Volume: 10 mL

Prep Date: 05/30/2018 1139

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	2.0	U	1.4	2.0
Arsenic	2.0	U	0.77	2.0
Barium	23.1		1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Cobalt	4.0	U	1.3	4.0
Chromium	4.0	U	1.3	4.0
Copper	1.9	J	1.9	4.0
Manganese	21.6		2.7	8.0
Nickel	4.0	U	1.3	4.0
Lead	1.2	U	0.37	1.2
Antimony	2.0	U	0.62	2.0
Selenium	10.0	U	0.69	10.0



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Client Sample ID: DUP-005**

Lab Sample ID: 460-156817-8

Client Matrix: Water

Date Sampled: 05/23/2018 0000

Date Received: 05/23/2018 2050

### 6020A Metals (ICP/MS)-Dissolved

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vanadium	4.0	U	1.2	4.0
Zinc	16.0	U	5.4	16.0
Aluminum	40.0	U	15.0	40.0
Sodium	12700		75.7	200
Magnesium	4950		65.7	200
Potassium	4300		64.9	200
Calcium	11800		67.6	200
Iron	120	U	45.7	120
Thallium	0.80	U	0.24	0.80

### 7470A Mercury (CVAA)

Analysis Method: 7470A	Analysis Batch: 460-524421	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524351	Lab File ID: 524351hg1.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/01/2018 1504		Final Weight/Volume: 30 mL
Prep Date: 06/01/2018 1241		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20

### 7470A Mercury (CVAA)-Dissolved

Analysis Method: 7470A	Analysis Batch: 460-524653	Instrument ID: LEEMAN7
Prep Method: 7470A	Prep Batch: 460-524602	Lab File ID: 524594hg.CSV
Dilution: 1.0		Initial Weight/Volume: 30 mL
Analysis Date: 06/02/2018 2018		Final Weight/Volume: 30 mL
Prep Date: 06/02/2018 1258		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.12	0.20



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

---

### General Chemistry

Client Sample ID: MW-001

Lab Sample ID: 460-156817-1

Client Matrix: Water

Date Sampled: 05/23/2018 1005

Date Received: 05/23/2018 2050

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Ammonia	0.078	J	mg/L	0.045	0.10	1.0	350.1
	Analysis Batch: 460-523973	Analysis Date: 05/31/2018 1124					
	Prep Batch: 460-523653	Prep Date: 05/30/2018 1402					
Total Kjeldahl Nitrogen	0.73	B F1	mg/L	0.15	0.20	1.0	351.2
	Analysis Batch: 480-417312	Analysis Date: 05/31/2018 0838					
	Prep Batch: 480-417086	Prep Date: 05/30/2018 1215					
Nitrate as N	4.3	H	mg/L	0.050	0.50	5.0	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1143					
Nitrate Nitrite as N	4.4	H	mg/L	0.046	0.50	5.0	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1143					
Nitrite as N	0.024	J H	mg/L	0.0030	0.10	1.0	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1126					



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

---

### General Chemistry

Client Sample ID: MW-002

Lab Sample ID: 460-156817-2

Client Matrix: Water

Date Sampled: 05/23/2018 1120

Date Received: 05/23/2018 2050

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Ammonia	0.063	J	mg/L	0.045	0.10	1.0	350.1
Analysis Batch: 460-523973 Analysis Date: 05/31/2018 1125							
Prep Batch: 460-523653 Prep Date: 05/30/2018 1402							
Total Kjeldahl Nitrogen	0.29	B	mg/L	0.15	0.20	1.0	351.2
Analysis Batch: 480-417312 Analysis Date: 05/31/2018 0838							
Prep Batch: 480-417086 Prep Date: 05/30/2018 1215							
Nitrate as N	3.1	H	mg/L	0.040	0.40	4.0	353.2
Analysis Batch: 460-522550 Analysis Date: 05/25/2018 1145							
Nitrate Nitrite as N	3.3	H	mg/L	0.036	0.40	4.0	353.2
Analysis Batch: 460-522550 Analysis Date: 05/25/2018 1145							
Nitrite as N	0.038	J H	mg/L	0.0030	0.10	1.0	353.2
Analysis Batch: 460-522550 Analysis Date: 05/25/2018 1127							



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

---

### General Chemistry

Client Sample ID: MW-003

Lab Sample ID: 460-156817-3

Client Matrix: Water

Date Sampled: 05/23/2018 1230

Date Received: 05/23/2018 2050

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Ammonia	0.057	J	mg/L	0.045	0.10	1.0	350.1
Analysis Batch: 460-523973 Analysis Date: 05/31/2018 1127							
Prep Batch: 460-523653 Prep Date: 05/30/2018 1402							
Total Kjeldahl Nitrogen	0.27	B	mg/L	0.15	0.20	1.0	351.2
Analysis Batch: 480-417312 Analysis Date: 05/31/2018 0838							
Prep Batch: 480-417086 Prep Date: 05/30/2018 1215							
Nitrate as N	3.0		mg/L	0.050	0.50	5.0	353.2
Analysis Batch: 460-522550 Analysis Date: 05/25/2018 1146							
Nitrate Nitrite as N	3.1		mg/L	0.046	0.50	5.0	353.2
Analysis Batch: 460-522550 Analysis Date: 05/25/2018 1146							
Nitrite as N	0.028	J	mg/L	0.0030	0.10	1.0	353.2
Analysis Batch: 460-522550 Analysis Date: 05/25/2018 1128							



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

---

### General Chemistry

Client Sample ID: MW-004

Lab Sample ID: 460-156817-4

Client Matrix: Water

Date Sampled: 05/23/2018 1320

Date Received: 05/23/2018 2050

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Ammonia	0.076	J	mg/L	0.045	0.10	1.0	350.1
	Analysis Batch: 460-523973	Analysis Date: 05/31/2018 1128					
	Prep Batch: 460-523653	Prep Date: 05/30/2018 1402					
Total Kjeldahl Nitrogen	0.30	B	mg/L	0.15	0.20	1.0	351.2
	Analysis Batch: 480-417312	Analysis Date: 05/31/2018 0838					
	Prep Batch: 480-417086	Prep Date: 05/30/2018 1215					
Nitrate as N	4.7		mg/L	0.10	1.0	10	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1146					
Nitrate Nitrite as N	5.0		mg/L	0.091	1.0	10	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1146					
Nitrite as N	0.019	J	mg/L	0.0030	0.10	1.0	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1129					



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

---

### General Chemistry

Client Sample ID: MW-005

Lab Sample ID: 460-156817-5

Client Matrix: Water

Date Sampled: 05/23/2018 1410

Date Received: 05/23/2018 2050

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Ammonia	0.15		mg/L	0.045	0.10	1.0	350.1
	Analysis Batch: 460-523973	Analysis Date: 05/31/2018 1130					
	Prep Batch: 460-523653	Prep Date: 05/30/2018 1402					
Total Kjeldahl Nitrogen	0.32	B	mg/L	0.15	0.20	1.0	351.2
	Analysis Batch: 480-417312	Analysis Date: 05/31/2018 0838					
	Prep Batch: 480-417086	Prep Date: 05/30/2018 1215					
Nitrate as N	2.7		mg/L	0.050	0.50	5.0	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1153					
Nitrate Nitrite as N	2.9		mg/L	0.046	0.50	5.0	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1153					
Nitrite as N	0.038	J	mg/L	0.0030	0.10	1.0	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1130					



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

### General Chemistry

Client Sample ID: MW-006

Lab Sample ID: 460-156817-6

Client Matrix: Water

Date Sampled: 05/23/2018 1455

Date Received: 05/23/2018 2050

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Ammonia	0.22		mg/L	0.045	0.10	1.0	350.1
	Analysis Batch: 460-523973		Analysis Date: 05/31/2018 1131				
	Prep Batch: 460-523653		Prep Date: 05/30/2018 1402				
Total Kjeldahl Nitrogen	0.39	B	mg/L	0.15	0.20	1.0	351.2
	Analysis Batch: 480-417312		Analysis Date: 05/31/2018 0838				
	Prep Batch: 480-417086		Prep Date: 05/30/2018 1215				
Nitrate as N	8.7		mg/L	0.10	1.0	10	353.2
	Analysis Batch: 460-522550		Analysis Date: 05/25/2018 1153				
Nitrate Nitrite as N	9.1		mg/L	0.091	1.0	10	353.2
	Analysis Batch: 460-522550		Analysis Date: 05/25/2018 1153				
Nitrite as N	0.032	J	mg/L	0.0030	0.10	1.0	353.2
	Analysis Batch: 460-522550		Analysis Date: 05/25/2018 1130				



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

---

### General Chemistry

Client Sample ID: EB-003

Lab Sample ID: 460-156817-7

Client Matrix: Water

Date Sampled: 05/23/2018 1130

Date Received: 05/23/2018 2050

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Ammonia	0.052	J	mg/L	0.045	0.10	1.0	350.1
Analysis Batch: 460-523973 Analysis Date: 05/31/2018 1133							
Prep Batch: 460-523653 Prep Date: 05/30/2018 1402							
Total Kjeldahl Nitrogen	0.18	J B	mg/L	0.15	0.20	1.0	351.2
Analysis Batch: 480-417312 Analysis Date: 05/31/2018 0838							
Prep Batch: 480-417086 Prep Date: 05/30/2018 1215							
Nitrate as N	0.10	U	mg/L	0.010	0.10	1.0	353.2
Analysis Batch: 460-522550 Analysis Date: 05/25/2018 1127							
Nitrate Nitrite as N	0.10	U	mg/L	0.0091	0.10	1.0	353.2
Analysis Batch: 460-522550 Analysis Date: 05/25/2018 1127							
Nitrite as N	0.0046	J	mg/L	0.0030	0.10	1.0	353.2
Analysis Batch: 460-522550 Analysis Date: 05/25/2018 1127							



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-156817-1

---

### General Chemistry

**Client Sample ID: DUP-005**

Lab Sample ID: 460-156817-8

Date Sampled: 05/23/2018 0000

Client Matrix: Water

Date Received: 05/23/2018 2050

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Ammonia	0.13	B	mg/L	0.045	0.10	1.0	350.1
	Analysis Batch: 460-524360	Analysis Date: 06/01/2018 1103					
	Prep Batch: 460-523969	Prep Date: 05/31/2018 1227					
Total Kjeldahl Nitrogen	0.20	U	mg/L	0.15	0.20	1.0	351.2
	Analysis Batch: 480-418476	Analysis Date: 06/07/2018 1015					
	Prep Batch: 480-418212	Prep Date: 06/06/2018 1225					
Nitrate as N	4.8	H	mg/L	0.10	1.0	10	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1154					
Nitrate Nitrite as N	5.1	H	mg/L	0.091	1.0	10	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1154					
Nitrite as N	0.019	J H	mg/L	0.0030	0.10	1.0	353.2
	Analysis Batch: 460-522550	Analysis Date: 05/25/2018 1142					



## DATA REPORTING QUALIFIERS

Client: PW Grosser Consulting

Job Number: 460-156817-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD is outside acceptance limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD is outside acceptance limits.
	*	RPD of the LCS and LCSD exceeds the control limits
	X	Surrogate is outside control limits
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time



# **QUALITY CONTROL RESULTS**



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:460-523403</b>					
LCS 460-523403/3	Lab Control Sample	T	Water	8260C	
LCSD 460-523403/4	Lab Control Sample Duplicate	T	Water	8260C	
MB 460-523403/7	Method Blank	T	Water	8260C	
460-156817-1	MW-001	T	Water	8260C	
460-156817-2	MW-002	T	Water	8260C	
460-156817-3	MW-003	T	Water	8260C	
460-156817-4	MW-004	T	Water	8260C	
460-156817-5	MW-005	T	Water	8260C	
460-156817-6	MW-006	T	Water	8260C	
460-156817-7	EB-003	T	Water	8260C	
460-156817-8	DUP-005	T	Water	8260C	

<b>Analysis Batch:460-523519</b>					
LCS 460-523519/4	Lab Control Sample	T	Water	8260C	
LCSD 460-523519/5	Lab Control Sample Duplicate	T	Water	8260C	
MB 460-523519/8	Method Blank	T	Water	8260C	
460-156817-9TB	Trip Blank	T	Water	8260C	

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 460-522606</b>					
LCS 460-522606/2-A	Lab Control Sample	T	Water	3510C	
LCS 460-522606/4-A	Lab Control Sample	T	Water	3510C	
LCSD 460-522606/3-A	Lab Control Sample Duplicate	T	Water	3510C	
LCSD 460-522606/5-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 460-522606/1-A	Method Blank	T	Water	3510C	
460-156817-1	MW-001	T	Water	3510C	
460-156817-2	MW-002	T	Water	3510C	
460-156817-3	MW-003	T	Water	3510C	
460-156817-4	MW-004	T	Water	3510C	
460-156817-5	MW-005	T	Water	3510C	
460-156817-6	MW-006	T	Water	3510C	
460-156817-7	EB-003	T	Water	3510C	
460-156817-8	DUP-005	T	Water	3510C	
<b>Analysis Batch:460-522695</b>					
LCS 460-522606/2-A	Lab Control Sample	T	Water	8270D	460-522606
LCS 460-522606/4-A	Lab Control Sample	T	Water	8270D	460-522606
LCSD 460-522606/3-A	Lab Control Sample Duplicate	T	Water	8270D	460-522606
LCSD 460-522606/5-A	Lab Control Sample Duplicate	T	Water	8270D	460-522606
MB 460-522606/1-A	Method Blank	T	Water	8270D	460-522606
460-156817-1	MW-001	T	Water	8270D	460-522606
460-156817-2	MW-002	T	Water	8270D	460-522606
460-156817-3	MW-003	T	Water	8270D	460-522606
460-156817-4	MW-004	T	Water	8270D	460-522606
460-156817-5	MW-005	T	Water	8270D	460-522606
460-156817-6	MW-006	T	Water	8270D	460-522606
460-156817-7	EB-003	T	Water	8270D	460-522606
460-156817-8	DUP-005	T	Water	8270D	460-522606

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 460-522379</b>					
LCS 460-522379/2-A	Lab Control Sample	T	Water	8151A	
LCSD 460-522379/3-A	Lab Control Sample Duplicate	T	Water	8151A	
MB 460-522379/1-A	Method Blank	T	Water	8151A	
460-156817-1	MW-001	T	Water	8151A	
460-156817-2	MW-002	T	Water	8151A	
460-156817-3	MW-003	T	Water	8151A	
460-156817-4	MW-004	T	Water	8151A	
460-156817-5	MW-005	T	Water	8151A	
460-156817-6	MW-006	T	Water	8151A	
460-156817-7	EB-003	T	Water	8151A	
460-156817-8	DUP-005	T	Water	8151A	
<b>Prep Batch: 460-522475</b>					
LCS 460-522475/2-A	Lab Control Sample	T	Water	3510C	
LCSD 460-522475/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 460-522475/1-A	Method Blank	T	Water	3510C	
460-156817-1	MW-001	T	Water	3510C	
460-156817-2	MW-002	T	Water	3510C	
460-156817-3	MW-003	T	Water	3510C	
460-156817-4	MW-004	T	Water	3510C	
460-156817-5	MW-005	T	Water	3510C	
460-156817-6	MW-006	T	Water	3510C	
460-156817-8	DUP-005	T	Water	3510C	
<b>Analysis Batch:460-522608</b>					
LCS 460-522379/2-A	Lab Control Sample	T	Water	8151A	460-522379
LCSD 460-522379/3-A	Lab Control Sample Duplicate	T	Water	8151A	460-522379
MB 460-522379/1-A	Method Blank	T	Water	8151A	460-522379
460-156817-1	MW-001	T	Water	8151A	460-522379
460-156817-2	MW-002	T	Water	8151A	460-522379
460-156817-3	MW-003	T	Water	8151A	460-522379
460-156817-4	MW-004	T	Water	8151A	460-522379
460-156817-5	MW-005	T	Water	8151A	460-522379
460-156817-6	MW-006	T	Water	8151A	460-522379
460-156817-7	EB-003	T	Water	8151A	460-522379
460-156817-8	DUP-005	T	Water	8151A	460-522379
<b>Prep Batch: 460-522746</b>					
LCS 460-522746/2-A	Lab Control Sample	T	Water	3510C	
MB 460-522746/1-A	Method Blank	T	Water	3510C	
460-156817-7	EB-003	T	Water	3510C	
460-156834-G-2-A MS	Matrix Spike	T	Water	3510C	
460-156834-G-2-B MSD	Matrix Spike Duplicate	T	Water	3510C	

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:460-523236</b>					
LCS 460-522475/2-A	Lab Control Sample	T	Water	8081B	460-522475
LCSD 460-522475/3-A	Lab Control Sample Duplicate	T	Water	8081B	460-522475
MB 460-522475/1-A	Method Blank	T	Water	8081B	460-522475
<b>Analysis Batch:460-523375</b>					
460-156817-1	MW-001	T	Water	8081B	460-522475
460-156817-2	MW-002	T	Water	8081B	460-522475
460-156817-3	MW-003	T	Water	8081B	460-522475
460-156817-4	MW-004	T	Water	8081B	460-522475
460-156817-5	MW-005	T	Water	8081B	460-522475
460-156817-6	MW-006	T	Water	8081B	460-522475
460-156817-8	DUP-005	T	Water	8081B	460-522475
<b>Analysis Batch:460-523574</b>					
LCS 460-522746/2-A	Lab Control Sample	T	Water	8081B	460-522746
MB 460-522746/1-A	Method Blank	T	Water	8081B	460-522746
460-156817-7	EB-003	T	Water	8081B	460-522746
460-156834-G-2-A MS	Matrix Spike	T	Water	8081B	460-522746
460-156834-G-2-B MSD	Matrix Spike Duplicate	T	Water	8081B	460-522746

#### Report Basis

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 460-523620</b>					
LCS 460-523620/2-A	Lab Control Sample	T	Water	3010A	
MB 460-523567/1-B	Method Blank	D	Water	3010A	
460-156817-1	MW-001	D	Water	3010A	
460-156817-2	MW-002	D	Water	3010A	
460-156817-3	MW-003	D	Water	3010A	
460-156817-4	MW-004	D	Water	3010A	
460-156817-5	MW-005	D	Water	3010A	
460-156817-6	MW-006	D	Water	3010A	
460-156817-7	EB-003	D	Water	3010A	
460-156817-8	DUP-005	D	Water	3010A	
460-156834-D-2-E DU ^2	Duplicate	D	Water	3010A	
460-156834-D-2-F MS ^2	Matrix Spike	D	Water	3010A	
460-156834-D-2-G MSD ^2	Matrix Spike Duplicate	D	Water	3010A	
<b>Prep Batch: 460-523788</b>					
LCS 460-523788/2-A ^2	Lab Control Sample	T	Water	3010A	
MB 460-523788/1-A ^2	Method Blank	T	Water	3010A	
460-156817-1	MW-001	T	Water	3010A	
460-156817-2	MW-002	T	Water	3010A	
460-156817-3	MW-003	T	Water	3010A	
460-156888-E-3-B DU ^2	Duplicate	T	Water	3010A	
460-156888-E-3-C MS ^2	Matrix Spike	T	Water	3010A	
<b>Prep Batch: 460-523825</b>					
LCS 460-523825/2-A ^2	Lab Control Sample	T	Water	3010A	
MB 460-523825/1-A ^2	Method Blank	T	Water	3010A	
460-156817-4	MW-004	T	Water	3010A	
460-156817-5	MW-005	T	Water	3010A	
460-156817-6	MW-006	T	Water	3010A	
460-156817-7	EB-003	T	Water	3010A	
460-156817-8	DUP-005	T	Water	3010A	
460-156834-F-2-B DU ^2	Duplicate	T	Water	3010A	
460-156834-F-2-C MS ^2	Matrix Spike	T	Water	3010A	
460-156834-F-2-D MSD ^2	Matrix Spike Duplicate	T	Water	3010A	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:460-524063</b>					
LCS 460-523620/2-A	Lab Control Sample	T	Water	6020A	460-523620
MB 460-523567/1-B	Method Blank	D	Water	6020A	460-523620
460-156817-1	MW-001	D	Water	6020A	460-523620
460-156817-2	MW-002	D	Water	6020A	460-523620
460-156817-3	MW-003	D	Water	6020A	460-523620
460-156817-4	MW-004	D	Water	6020A	460-523620
460-156817-5	MW-005	D	Water	6020A	460-523620
460-156817-6	MW-006	D	Water	6020A	460-523620
460-156817-7	EB-003	D	Water	6020A	460-523620
460-156817-8	DUP-005	D	Water	6020A	460-523620
460-156834-D-2-E DU ^2	Duplicate	D	Water	6020A	460-523620
460-156834-D-2-F MS ^2	Matrix Spike	D	Water	6020A	460-523620
460-156834-D-2-G MSD ^2	Matrix Spike Duplicate	D	Water	6020A	460-523620
<b>Analysis Batch:460-524183</b>					
LCS 460-523788/2-A ^2	Lab Control Sample	T	Water	6020A	460-523788
MB 460-523788/1-A ^2	Method Blank	T	Water	6020A	460-523788
460-156817-1	MW-001	T	Water	6020A	460-523788
460-156817-2	MW-002	T	Water	6020A	460-523788
460-156817-3	MW-003	T	Water	6020A	460-523788
460-156888-E-3-B DU ^2	Duplicate	T	Water	6020A	460-523788
460-156888-E-3-C MS ^2	Matrix Spike	T	Water	6020A	460-523788
<b>Analysis Batch:460-524275</b>					
460-156817-1	MW-001	T	Water	6020A	460-523788
460-156817-2	MW-002	T	Water	6020A	460-523788
460-156817-3	MW-003	T	Water	6020A	460-523788
<b>Prep Batch: 460-524351</b>					
LCS 460-524351/2-A	Lab Control Sample	T	Water	7470A	
MB 460-524351/1-A	Method Blank	T	Water	7470A	
460-156490-A-15-C DU	Duplicate	T	Water	7470A	
460-156490-E-15-C MS	Matrix Spike	T	Water	7470A	
460-156817-1	MW-001	T	Water	7470A	
460-156817-2	MW-002	T	Water	7470A	
460-156817-3	MW-003	T	Water	7470A	
460-156817-4	MW-004	T	Water	7470A	
460-156817-5	MW-005	T	Water	7470A	
460-156817-6	MW-006	T	Water	7470A	
460-156817-7	EB-003	T	Water	7470A	
460-156817-8	DUP-005	T	Water	7470A	

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:460-524421</b>					
LCS 460-524351/2-A	Lab Control Sample	T	Water	7470A	460-524351
MB 460-524351/1-A	Method Blank	T	Water	7470A	460-524351
460-156490-A-15-C DU	Duplicate	T	Water	7470A	460-524351
460-156490-E-15-C MS	Matrix Spike	T	Water	7470A	460-524351
460-156817-1	MW-001	T	Water	7470A	460-524351
460-156817-2	MW-002	T	Water	7470A	460-524351
460-156817-3	MW-003	T	Water	7470A	460-524351
460-156817-4	MW-004	T	Water	7470A	460-524351
460-156817-5	MW-005	T	Water	7470A	460-524351
460-156817-6	MW-006	T	Water	7470A	460-524351
460-156817-7	EB-003	T	Water	7470A	460-524351
460-156817-8	DUP-005	T	Water	7470A	460-524351
<b>Analysis Batch:460-524460</b>					
LCS 460-523825/2-A ^2	Lab Control Sample	T	Water	6020A	460-523825
MB 460-523825/1-A ^2	Method Blank	T	Water	6020A	460-523825
460-156817-4	MW-004	T	Water	6020A	460-523825
460-156817-5	MW-005	T	Water	6020A	460-523825
460-156817-6	MW-006	T	Water	6020A	460-523825
460-156817-7	EB-003	T	Water	6020A	460-523825
460-156817-8	DUP-005	T	Water	6020A	460-523825
460-156834-F-2-B DU ^2	Duplicate	T	Water	6020A	460-523825
460-156834-F-2-C MS ^2	Matrix Spike	T	Water	6020A	460-523825
460-156834-F-2-D MSD ^2	Matrix Spike Duplicate	T	Water	6020A	460-523825
<b>Prep Batch: 460-524602</b>					
LCS 460-524602/3-A	Lab Control Sample	T	Water	7470A	
MB 460-524594/1-B	Method Blank	D	Water	7470A	
460-156490-N-7-C DU	Duplicate	D	Water	7470A	
460-156490-N-7-D MS	Matrix Spike	D	Water	7470A	
460-156817-1	MW-001	D	Water	7470A	
460-156817-2	MW-002	D	Water	7470A	
460-156817-3	MW-003	D	Water	7470A	
460-156817-4	MW-004	D	Water	7470A	
460-156817-5	MW-005	D	Water	7470A	
460-156817-6	MW-006	D	Water	7470A	
460-156817-7	EB-003	D	Water	7470A	
460-156817-8	DUP-005	D	Water	7470A	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:460-524653</b>					
LCS 460-524602/3-A	Lab Control Sample	T	Water	7470A	460-524602
MB 460-524594/1-B	Method Blank	D	Water	7470A	460-524602
460-156490-N-7-C DU	Duplicate	D	Water	7470A	460-524602
460-156490-N-7-D MS	Matrix Spike	D	Water	7470A	460-524602
460-156817-1	MW-001	D	Water	7470A	460-524602
460-156817-2	MW-002	D	Water	7470A	460-524602
460-156817-3	MW-003	D	Water	7470A	460-524602
460-156817-4	MW-004	D	Water	7470A	460-524602
460-156817-5	MW-005	D	Water	7470A	460-524602
460-156817-6	MW-006	D	Water	7470A	460-524602
460-156817-7	EB-003	D	Water	7470A	460-524602
460-156817-8	DUP-005	D	Water	7470A	460-524602
<b>Analysis Batch:460-525762</b>					
460-156817-7	EB-003	T	Water	6020A	460-523825

#### Report Basis

D = Dissolved

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Prep Batch: 480-417086</b>					
LCS 480-417086/2-A	Lab Control Sample	T	Water	351.2	
MB 480-417086/1-A	Method Blank	T	Water	351.2	
460-156817-1	MW-001	T	Water	351.2	
460-156817-1MS	Matrix Spike	T	Water	351.2	
460-156817-2	MW-002	T	Water	351.2	
460-156817-3	MW-003	T	Water	351.2	
460-156817-4	MW-004	T	Water	351.2	
460-156817-5	MW-005	T	Water	351.2	
460-156817-6	MW-006	T	Water	351.2	
460-156817-7	EB-003	T	Water	351.2	
460-156817-7DU	Duplicate	T	Water	351.2	
<b>Analysis Batch:480-417312</b>					
LCS 480-417086/2-A	Lab Control Sample	T	Water	351.2	480-417086
MB 480-417086/1-A	Method Blank	T	Water	351.2	480-417086
460-156817-1	MW-001	T	Water	351.2	480-417086
460-156817-1MS	Matrix Spike	T	Water	351.2	480-417086
460-156817-2	MW-002	T	Water	351.2	480-417086
460-156817-3	MW-003	T	Water	351.2	480-417086
460-156817-4	MW-004	T	Water	351.2	480-417086
460-156817-5	MW-005	T	Water	351.2	480-417086
460-156817-6	MW-006	T	Water	351.2	480-417086
460-156817-7	EB-003	T	Water	351.2	480-417086
460-156817-7DU	Duplicate	T	Water	351.2	480-417086
<b>Prep Batch: 480-418212</b>					
LCS 480-418212/2-A	Lab Control Sample	T	Water	351.2	
MB 480-418212/1-A	Method Blank	T	Water	351.2	
480-136429-C-1-B DU	Duplicate	T	Water	351.2	
460-156817-8	DUP-005	T	Water	351.2	
460-157230-A-8-B MS	Matrix Spike	T	Water	351.2	
<b>Analysis Batch:480-418476</b>					
LCS 480-418212/2-A	Lab Control Sample	T	Water	351.2	480-418212
MB 480-418212/1-A	Method Blank	T	Water	351.2	480-418212
480-136429-C-1-B DU	Duplicate	T	Water	351.2	480-418212
460-156817-8	DUP-005	T	Water	351.2	480-418212
460-157230-A-8-B MS	Matrix Spike	T	Water	351.2	480-418212

TestAmerica Edison



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch: 460-522550</b>					
LCSSRM 460-522550/12	LCS-Certified Reference Material	T	Water	353.2	
LCSSRM 460-522550/13	LCS-Certified Reference Material	T	Water	353.2	
MB 460-522550/11	Method Blank	T	Water	353.2	
460-156817-1	MW-001	T	Water	353.2	
460-156817-2	MW-002	T	Water	353.2	
460-156817-3	MW-003	T	Water	353.2	
460-156817-3MS	Matrix Spike	T	Water	353.2	
460-156817-3MSD	Matrix Spike Duplicate	T	Water	353.2	
460-156817-4	MW-004	T	Water	353.2	
460-156817-5	MW-005	T	Water	353.2	
460-156817-6	MW-006	T	Water	353.2	
460-156817-7	EB-003	T	Water	353.2	
460-156817-8	DUP-005	T	Water	353.2	
<b>Prep Batch: 460-523653</b>					
LCS 460-523653/2-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 460-523653/1-A	Method Blank	T	Water	Distill/Ammonia	
200-43377-B-24-B MS	Matrix Spike	D	Water	Distill/Ammonia	
200-43377-B-24-C MSD	Matrix Spike Duplicate	D	Water	Distill/Ammonia	
460-156817-1	MW-001	T	Water	Distill/Ammonia	
460-156817-2	MW-002	T	Water	Distill/Ammonia	
460-156817-3	MW-003	T	Water	Distill/Ammonia	
460-156817-4	MW-004	T	Water	Distill/Ammonia	
460-156817-5	MW-005	T	Water	Distill/Ammonia	
460-156817-6	MW-006	T	Water	Distill/Ammonia	
460-156817-7	EB-003	T	Water	Distill/Ammonia	
<b>Prep Batch: 460-523969</b>					
LCS 460-523969/2-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 460-523969/1-A	Method Blank	T	Water	Distill/Ammonia	
460-156817-8	DUP-005	T	Water	Distill/Ammonia	
460-156817-8MS	Matrix Spike	T	Water	Distill/Ammonia	
460-156817-8MSD	Matrix Spike Duplicate	T	Water	Distill/Ammonia	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:460-523973</b>					
LCS 460-523653/2-A	Lab Control Sample	T	Water	350.1	460-523653
MB 460-523653/1-A	Method Blank	T	Water	350.1	460-523653
200-43377-B-24-B MS	Matrix Spike	D	Water	350.1	460-523653
200-43377-B-24-C MSD	Matrix Spike Duplicate	D	Water	350.1	460-523653
460-156817-1	MW-001	T	Water	350.1	460-523653
460-156817-2	MW-002	T	Water	350.1	460-523653
460-156817-3	MW-003	T	Water	350.1	460-523653
460-156817-4	MW-004	T	Water	350.1	460-523653
460-156817-5	MW-005	T	Water	350.1	460-523653
460-156817-6	MW-006	T	Water	350.1	460-523653
460-156817-7	EB-003	T	Water	350.1	460-523653
<b>Analysis Batch:460-524360</b>					
LCS 460-523969/2-A	Lab Control Sample	T	Water	350.1	460-523969
MB 460-523969/1-A	Method Blank	T	Water	350.1	460-523969
460-156817-8	DUP-005	T	Water	350.1	460-523969
460-156817-8MS	Matrix Spike	T	Water	350.1	460-523969
460-156817-8MSD	Matrix Spike Duplicate	T	Water	350.1	460-523969

#### Report Basis

D = Dissolved

T = Total



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Surrogate Recovery Report

#### 8260C Volatile Organic Compounds by GC/MS

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
460-156817-1	MW-001	109	98	103	105
460-156817-2	MW-002	107	97	102	103
460-156817-3	MW-003	120	110	114	117
460-156817-4	MW-004	107	96	102	102
460-156817-5	MW-005	112	98	105	106
460-156817-6	MW-006	113	101	108	106
460-156817-7	EB-003	120	107	113	113
460-156817-8	DUP-005	110	99	105	103
460-156817-9	Trip Blank	93	94	89	101
MB 460-523403/7		105	100	100	105
MB 460-523519/8		95	93	90	99
LCS 460-523403/3		102	101	98	103
LCS 460-523519/4		93	100	90	101
LCSD 460-523403/4		104	103	100	105
LCSD 460-523519/5		98	99	90	102

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
BFB = 4-Bromofluorobenzene	77-124
DBFM = Dibromofluoromethane (Surr)	72-131
TOL = Toluene-d8 (Surr)	80-120



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Surrogate Recovery Report

#### 8270D Semivolatile Organic Compounds (GC/MS)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	TBP %Rec	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPHL %Rec
460-156817-1	MW-001	127	187X	89X	177X	85X	231X
460-156817-2	MW-002	160X	134X	115X	146X	95X	182X
460-156817-3	MW-003	147X	128X	59X	135X	39	168X
460-156817-4	MW-004	121	126X	55	127X	37	149X
460-156817-5	MW-005	112	124X	49	129X	33	157X
460-156817-6	MW-006	128	126X	54	129X	35	161X
460-156817-7	EB-003	145X	131X	61X	136X	38	169X
460-156817-8	DUP-005	136	134X	61X	137X	41X	169X
MB 460-522606/1-A		97	105	42	101	27	122
LCS 460-522606/2-A		126	119X	57	117X	36	147
LCS 460-522606/4-A		152X	141X	66X	139X	46X	171X
LCSD 460-522606/3-A		109	102	45	105	30	118
LCSD 460-522606/5-A		140X	132X	64X	129X	43X	160X

Surrogate	Acceptance Limits
TBP = 2,4,6-Tribromophenol (Surr)	26-139
FBP = 2-Fluorobiphenyl	45-107
2FP = 2-Fluorophenol (Surr)	25-58
NBZ = Nitrobenzene-d5 (Surr)	51-108
PHL = Phenol-d5 (Surr)	14-39
TPHL = Terphenyl-d14 (Surr)	40-148



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Surrogate Recovery Report

#### 8081B Organochlorine Pesticides (GC)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCBP1 %Rec	DCBP2 %Rec	TCX1 %Rec	TCX2 %Rec
460-156817-1	MW-001	87	92	91	93
460-156817-2	MW-002	94	100	90	89
460-156817-3	MW-003	97	104	89	93
460-156817-4	MW-004	94	101	90	91
460-156817-5	MW-005	94	100	86	86
460-156817-6	MW-006	97	101	85	87
460-156817-7	EB-003	71	72	68	66
460-156817-8	DUP-005	94	103	82	85
MB 460-522475/1-A		59	58	61	58
MB 460-522746/1-A		72	77	70	70
LCS 460-522475/2-A		61	60	61	59
LCS 460-522746/2-A		68	71	65	63
LCSD 460-522475/3-A		61	60	61	58
460-156834-G-2-A MS		73	74	67	65
460-156834-G-2-B MSD		76	79	70	73

Surrogate	Acceptance Limits
DCBP = DCB Decachlorobiphenyl	10-150
TCX = Tetrachloro-m-xylene	12-136



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Surrogate Recovery Report

#### 8151A Herbicides (GC)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPAA1	DCPAA2
		%Rec	%Rec
460-156817-1	MW-001	109	98
460-156817-2	MW-002	119	103
460-156817-3	MW-003	114	98
460-156817-4	MW-004	109	99
460-156817-5	MW-005	116	103
460-156817-6	MW-006	105	93
460-156817-7	EB-003	128	121
460-156817-8	DUP-005	68	64
MB 460-522379/1-A		107	105
LCS 460-522379/2-A		119	113
LCSD 460-522379/3-A		123	112

Surrogate

Acceptance Limits

DCPAA = 2,4-Dichlorophenylacetic acid

54-150



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-523403

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 460-523403/7  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/30/2018 0012  
 Prep Date: 05/30/2018 0012  
 Leach Date: N/A

Analysis Batch: 460-523403  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CVOAMS13  
 Lab File ID: P45967.D  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	5.0	U	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-523403

Method: 8260C  
Preparation: 5030C

Lab Sample ID: MB 460-523403/7  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/30/2018 0012  
Prep Date: 05/30/2018 0012  
Leach Date: N/A

Analysis Batch: 460-523403  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CVOAMS13  
Lab File ID: P45967.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	1.0	U	0.12	1.0
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105	74 - 132
4-Bromofluorobenzene	100	77 - 124
Dibromofluoromethane (Surr)	100	72 - 131
Toluene-d8 (Surr)	105	80 - 120



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-523403

Method: 8260C

Preparation: 5030C

LCS Lab Sample ID: LCS 460-523403/3	Analysis Batch: 460-523403	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P45963.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/29/2018 2215	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/29/2018 2215		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-523403/4	Analysis Batch: 460-523403	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P45964.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/29/2018 2240	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/29/2018 2240		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	93	96	75 - 125	3	30		
1,1,2,2-Tetrachloroethane	96	101	74 - 120	5	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	98	99	59 - 150	2	30		
1,1,2-Trichloroethane	103	108	78 - 120	5	30		
1,1-Dichloroethane	111	114	77 - 123	3	30		
1,1-Dichloroethene	98	98	74 - 123	0	30		
1,2,3-Trichlorobenzene	105	108	78 - 131	2	30		
1,2,4-Trichlorobenzene	107	108	80 - 124	1	30		
1,2-Dibromo-3-Chloropropane	86	87	55 - 134	2	30		
1,2-Dichlorobenzene	102	107	80 - 120	5	30		
1,2-Dichloroethane	100	102	76 - 121	2	30		
1,2-Dichloropropane	107	110	77 - 123	3	30		
1,3-Dichlorobenzene	101	104	80 - 120	3	30		
1,4-Dichlorobenzene	97	101	80 - 120	5	30		
1,4-Dioxane	103	107	10 - 150	4	30		
2-Butanone (MEK)	86	86	64 - 120	0	30		
2-Hexanone	102	108	71 - 125	6	30		
4-Methyl-2-pentanone (MIBK)	104	108	78 - 124	4	30		
Acetone	92	93	39 - 150	2	30		
Benzene	108	113	77 - 121	5	30		
Bromoform	81	84	53 - 120	4	30		
Bromomethane	58	64	10 - 150	9	30		
Carbon disulfide	91	91	69 - 133	1	30		
Carbon tetrachloride	89	93	70 - 132	5	30		
Chlorobenzene	103	107	80 - 120	3	30		
Chlorobromomethane	101	105	77 - 127	4	30		
Chlorodibromomethane	92	94	73 - 120	3	30		
Chloroethane	95	96	52 - 150	1	30		
Chloroform	102	105	80 - 120	3	30		
Chloromethane	104	105	56 - 131	0	30		
cis-1,2-Dichloroethene	101	102	80 - 120	1	30		
cis-1,3-Dichloropropene	103	106	77 - 120	3	30		
Cyclohexane	109	109	56 - 150	0	30		
Dichlorobromomethane	97	99	76 - 120	2	30		
Dichlorodifluoromethane	92	92	50 - 131	0	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-523403

Method: 8260C

Preparation: 5030C

LCS Lab Sample ID: LCS 460-523403/3	Analysis Batch: 460-523403	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P45963.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/29/2018 2215	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/29/2018 2215		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-523403/4	Analysis Batch: 460-523403	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P45964.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 05/29/2018 2240	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 05/29/2018 2240		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethylbenzene	104	105	80 - 120	1	30		
Ethylene Dibromide	100	104	80 - 120	4	30		
Isopropylbenzene	101	105	80 - 123	3	30		
Methyl acetate	103	115	66 - 144	11	30		
Methyl tert-butyl ether	100	101	79 - 122	1	30		
Methylcyclohexane	98	101	61 - 145	2	30		
Methylene Chloride	102	102	77 - 123	1	30		
m-Xylene & p-Xylene	102	105	80 - 120	4	30		
o-Xylene	101	106	80 - 120	5	30		
Styrene	102	107	80 - 120	5	30		
Tetrachloroethene	103	108	78 - 122	5	30		
Toluene	104	107	80 - 120	3	30		
trans-1,2-Dichloroethene	94	97	79 - 120	4	30		
trans-1,3-Dichloropropene	103	106	76 - 120	3	30		
Trichloroethene	97	99	77 - 120	2	30		
Trichlorofluoromethane	102	102	71 - 143	0	30		
Vinyl chloride	97	96	62 - 138	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	104	74 - 132
4-Bromofluorobenzene	101	103	77 - 124
Dibromofluoromethane (Surr)	98	100	72 - 131
Toluene-d8 (Surr)	103	105	80 - 120



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-523519

### Method: 8260C

### Preparation: 5030C

Lab Sample ID: MB 460-523519/8  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/30/2018 1235  
 Prep Date: 05/30/2018 1235  
 Leach Date: N/A

Analysis Batch: 460-523519  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CVOAMS13  
 Lab File ID: P45996.D  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.34	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,2,3-Trichlorobenzene	1.0	U	0.35	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.23	1.0
1,2-Dichlorobenzene	1.0	U	0.22	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloropropane	1.0	U	0.18	1.0
1,3-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dichlorobenzene	1.0	U	0.33	1.0
1,4-Dioxane	50	U	8.7	50
2-Butanone (MEK)	5.0	U	2.2	5.0
2-Hexanone	5.0	U	0.72	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.63	5.0
Acetone	1.11	J	1.1	5.0
Benzene	1.0	U	0.090	1.0
Bromoform	1.0	U	0.18	1.0
Bromomethane	1.0	U	0.18	1.0
Carbon disulfide	1.0	U	0.22	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorobromomethane	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Cyclohexane	1.0	U	0.26	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Dichlorodifluoromethane	1.0	U	0.14	1.0
Ethylbenzene	1.0	U	0.30	1.0
Ethylene Dibromide	1.0	U	0.19	1.0
Isopropylbenzene	1.0	U	0.32	1.0
Methyl acetate	5.0	U	0.58	5.0
Methyl tert-butyl ether	1.0	U	0.13	1.0
Methylcyclohexane	1.0	U	0.22	1.0
Methylene Chloride	1.0	U	0.21	1.0
m-Xylene & p-Xylene	1.0	U	0.28	1.0
o-Xylene	1.0	U	0.32	1.0
Styrene	1.0	U	0.17	1.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-523519

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 460-523519/8  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/30/2018 1235  
Prep Date: 05/30/2018 1235  
Leach Date: N/A

Analysis Batch: 460-523519  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CVOAMS13  
Lab File ID: P45996.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	1.0	U	0.12	1.0
Toluene	1.0	U	0.25	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.060	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	74 - 132
4-Bromofluorobenzene	93	77 - 124
Dibromofluoromethane (Surr)	90	72 - 131
Toluene-d8 (Surr)	99	80 - 120



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-523519

Method: 8260C

Preparation: 5030C

LCS Lab Sample ID: LCS 460-523519/4  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/30/2018 1053  
 Prep Date: 05/30/2018 1053  
 Leach Date: N/A

Analysis Batch: 460-523519  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CVOAMS13  
 Lab File ID: P45992.D  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL  
 5 mL

LCSD Lab Sample ID: LCSD 460-523519/5  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/30/2018 1119  
 Prep Date: 05/30/2018 1119  
 Leach Date: N/A

Analysis Batch: 460-523519  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CVOAMS13  
 Lab File ID: P45993.D  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL  
 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	84	81	75 - 125	4	30		
1,1,2,2-Tetrachloroethane	101	99	74 - 120	2	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	73	71	59 - 150	4	30		
1,1,2-Trichloroethane	102	102	78 - 120	0	30		
1,1-Dichloroethane	98	95	77 - 123	4	30		
1,1-Dichloroethene	83	80	74 - 123	3	30		
1,2,3-Trichlorobenzene	107	104	78 - 131	3	30		
1,2,4-Trichlorobenzene	106	103	80 - 124	3	30		
1,2-Dibromo-3-Chloropropane	84	86	55 - 134	2	30		
1,2-Dichlorobenzene	103	99	80 - 120	4	30		
1,2-Dichloroethane	92	90	76 - 121	2	30		
1,2-Dichloropropane	98	95	77 - 123	3	30		
1,3-Dichlorobenzene	102	97	80 - 120	5	30		
1,4-Dichlorobenzene	97	94	80 - 120	3	30		
1,4-Dioxane	107	101	10 - 150	5	30		
2-Butanone (MEK)	79	77	64 - 120	3	30		
2-Hexanone	102	101	71 - 125	1	30		
4-Methyl-2-pentanone (MIBK)	103	101	78 - 124	2	30		
Acetone	90	90	39 - 150	0	30		
Benzene	104	100	77 - 121	5	30		
Bromoform	83	80	53 - 120	3	30		
Bromomethane	60	57	10 - 150	5	30		
Carbon disulfide	78	75	69 - 133	4	30		
Carbon tetrachloride	78	77	70 - 132	1	30		
Chlorobenzene	100	98	80 - 120	3	30		
Chlorobromomethane	87	86	77 - 127	2	30		
Chlorodibromomethane	91	87	73 - 120	5	30		
Chloroethane	95	91	52 - 150	3	30		
Chloroform	91	87	80 - 120	4	30		
Chloromethane	109	102	56 - 131	6	30		
cis-1,2-Dichloroethene	87	84	80 - 120	4	30		
cis-1,3-Dichloropropene	101	98	77 - 120	4	30		
Cyclohexane	84	80	56 - 150	4	30		
Dichlorobromomethane	87	83	76 - 120	4	30		
Dichlorodifluoromethane	70	67	50 - 131	5	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-523519

Method: 8260C

Preparation: 5030C

LCS Lab Sample ID: LCS 460-523519/4  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/30/2018 1053  
 Prep Date: 05/30/2018 1053  
 Leach Date: N/A

Analysis Batch: 460-523519  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CVOAMS13  
 Lab File ID: P45992.D  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL  
 5 mL

LCSD Lab Sample ID: LCSD 460-523519/5  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/30/2018 1119  
 Prep Date: 05/30/2018 1119  
 Leach Date: N/A

Analysis Batch: 460-523519  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CVOAMS13  
 Lab File ID: P45993.D  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL  
 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethylbenzene	99	95	80 - 120	4	30		
Ethylene Dibromide	98	96	80 - 120	2	30		
Isopropylbenzene	100	95	80 - 123	5	30		
Methyl acetate	108	107	66 - 144	1	30		
Methyl tert-butyl ether	88	87	79 - 122	1	30		
Methylcyclohexane	75	72	61 - 145	5	30		
Methylene Chloride	87	83	77 - 123	4	30		
m-Xylene & p-Xylene	99	95	80 - 120	4	30		
o-Xylene	97	92	80 - 120	5	30		
Styrene	99	95	80 - 120	4	30		
Tetrachloroethene	100	93	78 - 122	7	30		
Toluene	100	95	80 - 120	5	30		
trans-1,2-Dichloroethene	80	77	79 - 120	4	30		*
trans-1,3-Dichloropropene	101	98	76 - 120	3	30		
Trichloroethene	85	82	77 - 120	3	30		
Trichlorofluoromethane	88	85	71 - 143	4	30		
Vinyl chloride	96	92	62 - 138	5	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	98	74 - 132
4-Bromofluorobenzene	100	99	77 - 124
Dibromofluoromethane (Surr)	90	90	72 - 131
Toluene-d8 (Surr)	101	102	80 - 120



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-522606

### Method: 8270D

### Preparation: 3510C

Lab Sample ID: MB 460-522606/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/26/2018 0102  
 Prep Date: 05/25/2018 1617  
 Leach Date: N/A

Analysis Batch: 460-522695  
 Prep Batch: 460-522606  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CBNAMS16  
 Lab File ID: A153351.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 5 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	10	U	1.2	10
1,2,4,5-Tetrachlorobenzene	10	U	1.2	10
2,2'-oxybis[1-chloropropane]	10	U	0.63	10
2,3,4,6-Tetrachlorophenol	10	U	0.75	10
2,4,5-Trichlorophenol	10	U	0.28	10
2,4,6-Trichlorophenol	10	U	0.30	10
2,4-Dichlorophenol	10	U	0.42	10
2,4-Dimethylphenol	10	U	0.24	10
2,4-Dinitrophenol	20	U	14	20
2,4-Dinitrotoluene	2.0	U	1.0	2.0
2,6-Dinitrotoluene	2.0	U	0.39	2.0
2-Chloronaphthalene	10	U	1.2	10
2-Chlorophenol	10	U	0.38	10
2-Methylnaphthalene	10	U	1.1	10
2-Methylphenol	10	U	0.26	10
2-Nitroaniline	10	U	0.47	10
2-Nitrophenol	10	U	0.75	10
3,3'-Dichlorobenzidine	10	U	1.4	10
3-Nitroaniline	10	U	0.96	10
4,6-Dinitro-2-methylphenol	20	U	13	20
4-Bromophenyl phenyl ether	10	U	0.75	10
4-Chloro-3-methylphenol	10	U	0.58	10
4-Chloroaniline	10	U	1.9	10
4-Chlorophenyl phenyl ether	10	U	1.3	10
4-Methylphenol	10	U	0.24	10
4-Nitroaniline	10	U	0.54	10
4-Nitrophenol	20	U	0.69	20
Acenaphthene	10	U	1.1	10
Acenaphthylene	10	U	0.82	10
Acetophenone	10	U	0.79	10
Anthracene	10	U	0.63	10
Atrazine	2.0	U	1.3	2.0
Benzaldehyde	10	U	0.59	10
Benzo[a]anthracene	1.0	U	0.59	1.0
Benzo[a]pyrene	1.0	U	0.41	1.0
Benzo[b]fluoranthene	2.0	U	1.1	2.0
Benzo[g,h,i]perylene	10	U	1.4	10
Benzo[k]fluoranthene	1.0	U	0.67	1.0
Bis(2-chloroethoxy)methane	10	U	0.24	10
Bis(2-chloroethyl)ether	1.0	U	0.30	1.0
Bis(2-ethylhexyl) phthalate	2.0	U	1.7	2.0
Butyl benzyl phthalate	10	U	0.85	10
Caprolactam	10	U	0.68	10
Carbazole	10	U	0.68	10
Chrysene	2.0	U	0.91	2.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-522606

### Method: 8270D

### Preparation: 3510C

Lab Sample ID: MB 460-522606/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/26/2018 0102  
 Prep Date: 05/25/2018 1617  
 Leach Date: N/A

Analysis Batch: 460-522695  
 Prep Batch: 460-522606  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CBNAMS16  
 Lab File ID: A153351.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 2 mL  
 Injection Volume: 5 uL

Analyte	Result	Qual	MDL	RL
Dibenz(a,h)anthracene	1.0	U	0.72	1.0
Dibenzofuran	10	U	1.1	10
Diethyl phthalate	10	U	0.98	10
Dimethyl phthalate	10	U	0.77	10
Di-n-butyl phthalate	10	U	0.84	10
Di-n-octyl phthalate	10	U	4.8	10
Fluoranthene	10	U	0.84	10
Fluorene	10	U	0.91	10
Hexachlorobenzene	1.0	U	0.40	1.0
Hexachlorobutadiene	1.0	U	0.78	1.0
Hexachlorocyclopentadiene	10	U	1.7	10
Hexachloroethane	2.0	U	1.2	2.0
Indeno[1,2,3-cd]pyrene	2.0	U	1.3	2.0
Isophorone	10	U	0.80	10
Naphthalene	10	U	1.1	10
Nitrobenzene	1.0	U	0.57	1.0
N-Nitrosodi-n-propylamine	1.0	U	0.43	1.0
N-Nitrosodiphenylamine	10	U	0.89	10
Pentachlorophenol	20	U	1.4	20
Phenanthrene	10	U	0.58	10
Phenol	10	U	0.29	10
Pyrene	10	U	1.6	10

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	97	26 - 139
2-Fluorobiphenyl	105	45 - 107
2-Fluorophenol (Surr)	42	25 - 58
Nitrobenzene-d5 (Surr)	101	51 - 108
Phenol-d5 (Surr)	27	14 - 39
Terphenyl-d14 (Surr)	122	40 - 148



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522606

Method: 8270D

Preparation: 3510C

LCS Lab Sample ID: LCS 460-522606/4-A	Analysis Batch: 460-522695	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-522606	Lab File ID: A153350.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/26/2018 0041	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/25/2018 1617		Injection Volume: 5 uL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-522606/5-A	Analysis Batch: 460-522695	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-522606	Lab File ID: A153354.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/26/2018 0205	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/25/2018 1617		Injection Volume: 5 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Atrazine	137	122	38 - 146	12	30		
Benzaldehyde	135	128	46 - 111	5	30	*	*
Caprolactam	43	33	10 - 43	26	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
2,4,6-Tribromophenol (Surr)	152	X	140	X	26 - 139		
2-Fluorobiphenyl	141	X	132	X	45 - 107		
2-Fluorophenol (Surr)	66	X	64	X	25 - 58		
Nitrobenzene-d5 (Surr)	139	X	129	X	51 - 108		
Phenol-d5 (Surr)	46	X	43	X	14 - 39		
Terphenyl-d14 (Surr)	171	X	160	X	40 - 148		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522606

Method: 8270D

Preparation: 3510C

LCS Lab Sample ID: LCS 460-522606/2-A	Analysis Batch: 460-522695	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-522606	Lab File ID: A153352.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/26/2018 0123	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/25/2018 1617		Injection Volume: 5 uL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-522606/3-A	Analysis Batch: 460-522695	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-522606	Lab File ID: A153353.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/26/2018 0144	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/25/2018 1617		Injection Volume: 5 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1'-Biphenyl	96	97	54 - 108	2	30		
1,2,4,5-Tetrachlorobenzene	91	91	46 - 105	0	30		
2,2'-oxybis[1-chloropropane]	96	97	50 - 108	2	30		
2,3,4,6-Tetrachlorophenol	93	96	57 - 122	3	30		
2,4,5-Trichlorophenol	94	95	59 - 117	1	30		
2,4,6-Trichlorophenol	93	92	62 - 120	1	30		
2,4-Dichlorophenol	88	87	62 - 102	1	30		
2,4-Dimethylphenol	83	85	61 - 95	2	30		
2,4-Dinitrophenol	87	87	45 - 125	1	30		
2,4-Dinitrotoluene	104	104	70 - 123	1	30		
2,6-Dinitrotoluene	101	103	68 - 121	2	30		
2-Chloronaphthalene	94	95	54 - 105	1	30		
2-Chlorophenol	77	79	54 - 92	3	30		
2-Methylnaphthalene	94	96	47 - 104	2	30		
2-Methylphenol	68	69	43 - 80	2	30		
2-Nitroaniline	89	91	46 - 124	2	30		
2-Nitrophenol	93	93	58 - 109	0	30		
3,3'-Dichlorobenzidine	77	108	68 - 123	33	30		*
3-Nitroaniline	77	90	60 - 117	15	30		
4,6-Dinitro-2-methylphenol	101	103	59 - 132	2	30		
4-Bromophenyl phenyl ether	103	106	57 - 126	2	30		
4-Chloro-3-methylphenol	84	85	58 - 98	1	30		
4-Chloroaniline	53	80	51 - 108	41	30		*
4-Chlorophenyl phenyl ether	96	98	60 - 114	3	30		
4-Methylphenol	60	60	34 - 78	1	30		
4-Nitroaniline	80	88	48 - 135	9	30		
4-Nitrophenol	36	33	11 - 47	9	30		
Acenaphthene	96	97	58 - 107	1	30		
Acenaphthylene	92	93	61 - 106	1	30		
Acetophenone	99	102	54 - 115	4	30		
Anthracene	102	103	70 - 118	1	30		
Benzo[a]anthracene	101	102	73 - 119	1	30		
Benzo[a]pyrene	106	105	76 - 125	0	30		
Benzo[b]fluoranthene	106	105	78 - 123	1	30		
Benzo[g,h,i]perylene	88	94	63 - 133	7	30		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522606

Method: 8270D

Preparation: 3510C

LCS Lab Sample ID: LCS 460-522606/2-A	Analysis Batch: 460-522695	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-522606	Lab File ID: A153352.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/26/2018 0123	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/25/2018 1617		Injection Volume: 5 uL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-522606/3-A	Analysis Batch: 460-522695	Instrument ID: CBNAMS16
Client Matrix: Water	Prep Batch: 460-522606	Lab File ID: A153353.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/26/2018 0144	Units: ug/L	Final Weight/Volume: 2 mL
Prep Date: 05/25/2018 1617		Injection Volume: 5 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzo[k]fluoranthene	112	111	71 - 126	2	30		
Bis(2-chloroethoxy)methane	96	96	67 - 104	0	30		
Bis(2-chloroethyl)ether	92	94	63 - 106	2	30		
Bis(2-ethylhexyl) phthalate	117	113	63 - 135	3	30		
Butyl benzyl phthalate	114	112	66 - 129	2	30		
Carbazole	97	100	68 - 121	3	30		
Chrysene	106	107	73 - 121	0	30		
Dibenz(a,h)anthracene	91	97	59 - 136	7	30		
Dibenzofuran	93	97	67 - 108	4	30		
Diethyl phthalate	101	103	61 - 129	1	30		
Dimethyl phthalate	101	103	65 - 121	2	30		
Di-n-butyl phthalate	106	106	64 - 130	0	30		
Di-n-octyl phthalate	122	113	64 - 131	8	30		
Fluoranthene	97	97	66 - 123	0	30		
Fluorene	98	97	67 - 112	0	30		
Hexachlorobenzene	106	107	63 - 125	1	30		
Hexachlorobutadiene	80	81	34 - 99	2	30		
Hexachlorocyclopentadiene	79	76	18 - 99	4	30		
Hexachloroethane	85	84	39 - 92	1	30		
Indeno[1,2,3-cd]pyrene	90	95	57 - 142	6	30		
Isophorone	87	87	55 - 105	0	30		
Naphthalene	89	91	51 - 98	3	30		
Nitrobenzene	99	102	56 - 106	3	30		
N-Nitrosodi-n-propylamine	103	107	48 - 118	4	30		
N-Nitrosodiphenylamine	101	101	69 - 118	0	30		
Pentachlorophenol	93	91	54 - 120	2	30		
Phenanthrene	100	101	70 - 117	1	30		
Phenol	31	30	16 - 43	3	30		
Pyrene	124	119	63 - 129	4	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
2,4,6-Tribromophenol (Surr)	126		109		26 - 139		
2-Fluorobiphenyl	119	X	102		45 - 107		
2-Fluorophenol (Surr)	57		45		25 - 58		
Nitrobenzene-d5 (Surr)	117	X	105		51 - 108		
Phenol-d5 (Surr)	36		30		14 - 39		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Terphenyl-d14 (Surr)	147	118	40 - 148



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-522475

### Method: 8081B

### Preparation: 3510C

Lab Sample ID: MB 460-522475/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/29/2018 1007  
 Prep Date: 05/25/2018 0719  
 Leach Date: N/A

Analysis Batch: 460-523236  
 Prep Batch: 460-522475  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC5  
 Lab File ID: 5F921292.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	59	10 - 150
Tetrachloro-m-xylene	61	12 - 136

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	58	10 - 150
Tetrachloro-m-xylene	58	12 - 136



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample - Batch: 460-522475

Method: 8081B

Preparation: 3510C

Lab Sample ID: LCS 460-522475/2-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/29/2018 1020  
Prep Date: 05/25/2018 0719  
Leach Date: N/A

Analysis Batch: 460-523236  
Prep Batch: 460-522475  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CPESTGC5  
Lab File ID: 5F921293.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDE	0.800	0.558	70	56 - 132	
4,4'-DDT	0.800	0.513	64	56 - 134	
Aldrin	0.800	0.544	68	52 - 125	
alpha-BHC	0.800	0.567	71	57 - 133	
Dieldrin	0.800	0.552	69	61 - 135	
Endosulfan I	0.800	0.564	71	61 - 134	
Endosulfan II	0.800	0.588	74	61 - 133	
Endrin	0.800	0.514	64	60 - 135	
Endrin aldehyde	0.800	0.606	76	59 - 130	
Endrin ketone	0.800	0.602	75	60 - 137	
gamma-BHC (Lindane)	0.800	0.561	70	59 - 131	
Heptachlor	0.800	0.526	66	54 - 126	
Heptachlor epoxide	0.800	0.549	69	60 - 130	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522475

Method: 8081B

Preparation: 3510C

LCS Lab Sample ID: LCS 460-522475/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/29/2018 1020  
 Prep Date: 05/25/2018 0719  
 Leach Date: N/A

Analysis Batch: 460-523236  
 Prep Batch: 460-522475  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC5  
 Lab File ID: 5F921293.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 460-522475/3-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/29/2018 1033  
 Prep Date: 05/25/2018 0719  
 Leach Date: N/A

Analysis Batch: 460-523236  
 Prep Batch: 460-522475  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC5  
 Lab File ID: 5F921294.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
4,4'-DDD	72	68	58 - 136	5	30		
4,4'-DDE	70	69	56 - 132	1	30		
4,4'-DDT	64	65	56 - 134	1	30		
Aldrin	68	67	52 - 125	1	30		
alpha-BHC	71	68	57 - 133	4	30		
beta-BHC	72	69	61 - 134	5	30		
delta-BHC	73	71	56 - 130	2	30		
Dieldrin	69	68	61 - 135	2	30		
Endosulfan I	71	67	61 - 134	5	30		
Endosulfan II	74	72	61 - 133	2	30		
Endosulfan sulfate	68	66	59 - 133	2	30		
Endrin	64	63	60 - 135	2	30		
Endrin aldehyde	76	75	59 - 130	2	30		
Endrin ketone	75	74	60 - 137	2	30		
gamma-BHC (Lindane)	70	68	59 - 131	3	30		
Heptachlor	66	64	54 - 126	3	30		
Heptachlor epoxide	69	67	60 - 130	2	30		
Methoxychlor	63	61	57 - 133	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	61	61	10 - 150
Tetrachloro-m-xylene	61	61	12 - 136
Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	60	60	10 - 150
Tetrachloro-m-xylene	59	58	12 - 136



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-522746

### Method: 8081B

### Preparation: 3510C

Lab Sample ID: MB 460-522746/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/30/2018 1019  
 Prep Date: 05/26/2018 0019  
 Leach Date: N/A

Analysis Batch: 460-523574  
 Prep Batch: 460-522746  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC5  
 Lab File ID: 5F921389.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.020	U	0.0060	0.020
4,4'-DDE	0.020	U	0.0020	0.020
4,4'-DDT	0.020	U	0.0040	0.020
Aldrin	0.020	U	0.0030	0.020
alpha-BHC	0.020	U	0.0070	0.020
beta-BHC	0.020	U	0.0040	0.020
Chlordane (technical)	0.50	U	0.055	0.50
delta-BHC	0.020	U	0.0050	0.020
Dieldrin	0.020	U	0.0030	0.020
Endosulfan I	0.020	U	0.0020	0.020
Endosulfan II	0.020	U	0.0040	0.020
Endosulfan sulfate	0.020	U	0.0060	0.020
Endrin	0.020	U	0.0040	0.020
Endrin aldehyde	0.020	U	0.0080	0.020
Endrin ketone	0.020	U	0.0080	0.020
gamma-BHC (Lindane)	0.020	U	0.012	0.020
Heptachlor	0.020	U	0.0030	0.020
Heptachlor epoxide	0.020	U	0.0050	0.020
Methoxychlor	0.020	U	0.0040	0.020
Toxaphene	0.50	U	0.11	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	77	10 - 150
Tetrachloro-m-xylene	70	12 - 136

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	72	10 - 150
Tetrachloro-m-xylene	70	12 - 136



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample - Batch: 460-522746

Method: 8081B

Preparation: 3510C

Lab Sample ID: LCS 460-522746/2-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/30/2018 1032  
Prep Date: 05/26/2018 0019  
Leach Date: N/A

Analysis Batch: 460-523574  
Prep Batch: 460-522746  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CPESTGC5  
Lab File ID: 5F921390.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.800	0.651	81	58 - 136	
4,4'-DDE	0.800	0.673	84	56 - 132	
4,4'-DDT	0.800	0.679	85	56 - 134	
Aldrin	0.800	0.638	80	52 - 125	
alpha-BHC	0.800	0.639	80	57 - 133	
beta-BHC	0.800	0.646	81	61 - 134	
delta-BHC	0.800	0.683	85	56 - 130	
Dieldrin	0.800	0.667	83	61 - 135	
Endosulfan I	0.800	0.684	85	61 - 134	
Endosulfan II	0.800	0.711	89	61 - 133	
Endosulfan sulfate	0.800	0.658	82	59 - 133	
Endrin	0.800	0.657	82	60 - 135	
Endrin aldehyde	0.800	0.711	89	59 - 130	
Endrin ketone	0.800	0.716	90	60 - 137	
gamma-BHC (Lindane)	0.800	0.634	79	59 - 131	
Heptachlor	0.800	0.626	78	54 - 126	
Heptachlor epoxide	0.800	0.654	82	60 - 130	
Methoxychlor	0.800	0.634	79	57 - 133	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	71	10 - 150
Tetrachloro-m-xylene	65	12 - 136

### Lab Control Sample - Batch: 460-522746

Method: 8081B

Preparation: 3510C

Lab Sample ID: LCS 460-522746/2-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/30/2018 1032  
Prep Date: 05/26/2018 0019  
Leach Date: N/A

Analysis Batch: 460-523574  
Prep Batch: 460-522746  
Leach Batch: N/A  
Units: ug/L

Instrument ID: CPESTGC5  
Lab File ID: 5F921390.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL  
Column ID: SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.800	0.611	76	58 - 136	
4,4'-DDE	0.800	0.636	80	56 - 132	
4,4'-DDT	0.800	0.647	81	56 - 134	
Aldrin	0.800	0.614	77	52 - 125	
alpha-BHC	0.800	0.631	79	57 - 133	
beta-BHC	0.800	0.609	76	61 - 134	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample - Batch: 460-522746

Method: 8081B

Preparation: 3510C

Lab Sample ID: LCS 460-522746/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/30/2018 1032  
 Prep Date: 05/26/2018 0019  
 Leach Date: N/A

Analysis Batch: 460-523574  
 Prep Batch: 460-522746  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: CPESTGC5  
 Lab File ID: 5F921390.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume: 1 uL  
 Column ID: SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
delta-BHC	0.800	0.636	79	56 - 130	
Dieldrin	0.800	0.626	78	61 - 135	
Endosulfan I	0.800	0.619	77	61 - 134	
Endosulfan II	0.800	0.657	82	61 - 133	
Endosulfan sulfate	0.800	0.655	82	59 - 133	
Endrin	0.800	0.615	77	60 - 135	
Endrin aldehyde	0.800	0.667	83	59 - 130	
Endrin ketone	0.800	0.676	85	60 - 137	
gamma-BHC (Lindane)	0.800	0.618	77	59 - 131	
Heptachlor	0.800	0.602	75	54 - 126	
Heptachlor epoxide	0.800	0.621	78	60 - 130	
Methoxychlor	0.800	0.624	78	57 - 133	
Surrogate	% Rec		Acceptance Limits		
DCB Decachlorobiphenyl	68		10 - 150		
Tetrachloro-m-xylene	63		12 - 136		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 460-522746**

**Method: 8081B  
Preparation: 3510C**

MS Lab Sample ID: 460-156834-G-2-A MS	Analysis Batch: 460-523574	Instrument ID: CPESTGC5
Client Matrix: Water	Prep Batch: 460-522746	Lab File ID: 5F921391.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/30/2018 1045		Final Weight/Volume: 1 mL
Prep Date: 05/26/2018 0019		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

MSD Lab Sample ID: 460-156834-G-2-B MSD	Analysis Batch: 460-523574	Instrument ID: CPESTGC5
Client Matrix: Water	Prep Batch: 460-522746	Lab File ID: 5F921392.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/30/2018 1057		Final Weight/Volume: 1 mL
Prep Date: 05/26/2018 0019		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	84	83	58 - 136	1	30		
4,4'-DDE	82	84	56 - 132	2	30		
4,4'-DDT	84	83	56 - 134	1	30		
Aldrin	78	78	52 - 125	0	30		
alpha-BHC	78	78	57 - 133	0	30		
beta-BHC	81	83	61 - 134	3	30		
delta-BHC	85	86	56 - 130	1	30		
Dieldrin	80	83	61 - 135	3	30		
Endosulfan I	82	83	61 - 134	2	30		
Endosulfan II	87	87	61 - 133	0	30		
Endosulfan sulfate	82	80	59 - 133	2	30		
Endrin	82	81	60 - 135	1	30		
Endrin aldehyde	79	69	59 - 130	13	30		
Endrin ketone	90	91	60 - 137	1	30		
gamma-BHC (Lindane)	77	77	59 - 131	0	30		
Heptachlor	74	76	54 - 126	2	30		
Heptachlor epoxide	78	79	60 - 130	1	30		
Methoxychlor	83	78	57 - 133	7	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	74		79	10 - 150			
Tetrachloro-m-xylene	67		73	12 - 136			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-522746

Method: 8081B  
Preparation: 3510C

MS Lab Sample ID: 460-156834-G-2-A MS	Analysis Batch: 460-523574	Instrument ID: CPESTGC5
Client Matrix: Water	Prep Batch: 460-522746	Lab File ID: 5F921391.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/30/2018 1045		Final Weight/Volume: 1 mL
Prep Date: 05/26/2018 0019		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

MSD Lab Sample ID: 460-156834-G-2-B MSD	Analysis Batch: 460-523574	Instrument ID: CPESTGC5
Client Matrix: Water	Prep Batch: 460-522746	Lab File ID: 5F921392.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/30/2018 1057		Final Weight/Volume: 1 mL
Prep Date: 05/26/2018 0019		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4,4'-DDD	81	79	58 - 136	2	30		
4,4'-DDE	81	79	56 - 132	2	30		
4,4'-DDT	84	82	56 - 134	2	30		
Aldrin	75	75	52 - 125	0	30		
alpha-BHC	77	75	57 - 133	2	30		
beta-BHC	77	76	61 - 134	2	30		
delta-BHC	79	80	56 - 130	1	30		
Dieldrin	75	77	61 - 135	2	30		
Endosulfan I	80	79	61 - 134	2	30		
Endosulfan II	83	82	61 - 133	1	30		
Endosulfan sulfate	81	78	59 - 133	4	30		
Endrin	79	78	60 - 135	1	30		
Endrin aldehyde	78	67	59 - 130	14	30		
Endrin ketone	86	85	60 - 137	1	30		
gamma-BHC (Lindane)	76	74	59 - 131	2	30		
Heptachlor	73	71	54 - 126	3	30		
Heptachlor epoxide	76	75	60 - 130	2	30		
Methoxychlor	76	76	57 - 133	0	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	73		76	10 - 150			
Tetrachloro-m-xylene	65		70	12 - 136			



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-522379

### Method: 8151A Preparation: 8151A

Lab Sample ID:	MB 460-522379/1-A	Analysis Batch:	460-522608	Instrument ID:	CPESTGC1
Client Matrix:	Water	Prep Batch:	460-522379	Lab File ID:	1F003421.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	05/25/2018 1830	Units:	ug/L	Final Weight/Volume:	3 mL
Prep Date:	05/25/2018 0110			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	1.2	U	0.12	1.2
2,4-D	1.2	U	0.13	1.2
Silvex (2,4,5-TP)	1.2	U	0.11	1.2

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	107	54 - 150
Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	105	54 - 150

### Lab Control Sample - Batch: 460-522379

### Method: 8151A Preparation: 8151A

Lab Sample ID:	LCS 460-522379/2-A	Analysis Batch:	460-522608	Instrument ID:	CPESTGC1
Client Matrix:	Water	Prep Batch:	460-522379	Lab File ID:	1F003422.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	05/25/2018 1846	Units:	ug/L	Final Weight/Volume:	3 mL
Prep Date:	05/25/2018 0110			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	4.00	4.93	123	68 - 139	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522379

Method: 8151A

Preparation: 8151A

LCS Lab Sample ID: LCS 460-522379/2-A	Analysis Batch: 460-522608	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-522379	Lab File ID: 1F003422.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/25/2018 1846	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/25/2018 0110		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 460-522379/3-A	Analysis Batch: 460-522608	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-522379	Lab File ID: 1F003423.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/25/2018 1902	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/25/2018 0110		Injection Volume: 1 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
2,4,5-T	124	137	68 - 139	11	30		
2,4-D	117	116	48 - 119	1	30		
Silvex (2,4,5-TP)	136	132	76 - 150	3	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
2,4-Dichlorophenylacetic acid	119		123		54 - 150		

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-522379

Method: 8151A

Preparation: 8151A

LCS Lab Sample ID: LCS 460-522379/2-A	Analysis Batch: 460-522608	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-522379	Lab File ID: 1F003422.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/25/2018 1846	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/25/2018 0110		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

LCSD Lab Sample ID: LCSD 460-522379/3-A	Analysis Batch: 460-522608	Instrument ID: CPESTGC1
Client Matrix: Water	Prep Batch: 460-522379	Lab File ID: 1F003423.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 250 mL
Analysis Date: 05/25/2018 1902	Units: ug/L	Final Weight/Volume: 3 mL
Prep Date: 05/25/2018 0110		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
2,4-D	88	96	48 - 119	8	30		
Silvex (2,4,5-TP)	127	131	76 - 150	3	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
2,4-Dichlorophenylacetic acid	113		112		54 - 150		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-523620

### Method: 6020A Preparation: 3010A Dissolved

Lab Sample ID: MB 460-523567/1-B  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/31/2018 1717  
Prep Date: 05/30/2018 1139  
Leach Date: N/A

Analysis Batch: 460-524063  
Prep Batch: 460-523620  
Leach Batch: N/A  
Units: ug/L

Instrument ID: ICPMS1  
Lab File ID: 029\_CCB.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Arsenic	1.0	U	0.38	1.0
Barium	2.0	U	0.57	2.0
Beryllium	0.40	U	0.13	0.40
Cadmium	1.0	U	0.31	1.0
Chromium	2.0	U	0.66	2.0
Cobalt	2.0	U	0.64	2.0
Copper	2.0	U	0.95	2.0
Antimony	1.0	U	0.31	1.0
Lead	0.60	U	0.19	0.60
Manganese	4.0	U	1.3	4.0
Nickel	2.0	U	0.65	2.0
Aluminum	20.0	U	7.5	20.0
Selenium	5.0	U	0.35	5.0
Magnesium	100	U	32.9	100
Silver	1.0	U	0.68	1.0
Potassium	100	U	32.5	100
Sodium	100	U	37.9	100
Calcium	100	U	33.8	100
Iron	60.0	U	22.9	60.0
Vanadium	2.0	U	0.59	2.0
Thallium	0.40	U	0.12	0.40
Zinc	8.0	U	2.7	8.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample - Batch: 460-523620

Method: 6020A

Preparation: 3010A

Lab Sample ID: LCS 460-523620/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Analysis Date: 05/31/2018 1720  
 Prep Date: 05/30/2018 1139  
 Leach Date: N/A

Analysis Batch: 460-524063  
 Prep Batch: 460-523620  
 Leach Batch: N/A  
 Units: ug/L

Instrument ID: ICPMS1  
 Lab File ID: 030SMPL.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	10.0	10.25	103	80 - 120	
Barium	10.0	10.32	103	80 - 120	
Beryllium	5.00	4.96	99	80 - 120	
Cadmium	5.00	4.89	98	80 - 120	
Chromium	10.0	9.96	100	80 - 120	
Cobalt	5.00	5.03	101	80 - 120	
Copper	10.0	10.27	103	80 - 120	
Antimony	5.00	4.73	95	80 - 120	
Lead	5.00	4.96	99	80 - 120	
Manganese	50.0	48.07	96	80 - 120	
Nickel	10.0	10.25	103	80 - 120	
Aluminum	500	508.9	102	80 - 120	
Selenium	10.0	10.16	102	80 - 120	
Magnesium	500	479.9	96	80 - 120	
Silver	5.00	4.33	87	80 - 120	
Potassium	500	481.8	96	80 - 120	
Sodium	500	475.5	95	80 - 120	
Calcium	500	545.5	109	80 - 120	
Iron	500	516.2	103	80 - 120	
Vanadium	10.0	9.88	99	80 - 120	
Thallium	4.00	3.89	97	80 - 120	
Zinc	50.0	50.56	101	80 - 120	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-523620

**Method: 6020A**  
**Preparation: 3010A**  
**Dissolved**

MS Lab Sample ID: 460-156834-D-2-F MS ^2  
Client Matrix: Water  
Dilution: 2.0  
Analysis Date: 05/31/2018 1725  
Prep Date: 05/30/2018 1139  
Leach Date: N/A

Analysis Batch: 460-524063  
Prep Batch: 460-523620  
Leach Batch: N/A

Instrument ID: ICPMS1  
Lab File ID: 032SMPL.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 460-156834-D-2-G MSD ^2  
Client Matrix: Water  
Dilution: 2.0  
Analysis Date: 05/31/2018 1722  
Prep Date: 05/30/2018 1139  
Leach Date: N/A

Analysis Batch: 460-524063  
Prep Batch: 460-523620  
Leach Batch: N/A

Instrument ID: ICPMS1  
Lab File ID: 031SMPL.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	102	103	75 - 125	1	20		
Barium	102	93	75 - 125	1	20	4	4
Beryllium	104	102	75 - 125	2	20		
Cadmium	101	99	75 - 125	1	20		
Chromium	98	97	75 - 125	1	20		
Cobalt	96	98	75 - 125	2	20		
Copper	98	99	75 - 125	1	20		
Antimony	96	96	75 - 125	0	20		
Lead	99	98	75 - 125	1	20		
Manganese	94	93	75 - 125	1	20		
Nickel	96	98	75 - 125	2	20		
Aluminum	98	99	75 - 125	0	20		
Selenium	102	105	75 - 125	2	20		
Magnesium	97	91	75 - 125	1	20	4	4
Silver	82	83	75 - 125	1	20		
Potassium	131	126	75 - 125	1	20	4	4
Sodium	121	87	75 - 125	2	20	4	4
Calcium	108	104	75 - 125	0	20	4	4
Iron	100	102	75 - 125	1	20		
Vanadium	98	97	75 - 125	1	20		
Thallium	98	97	75 - 125	1	20		
Zinc	98	99	75 - 125	1	20		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Duplicate - Batch: 460-523620**

**Method: 6020A**  
**Preparation: 3010A**  
**Dissolved**

Lab Sample ID:	460-156834-D-2-E DU ^2	Analysis Batch:	460-524063	Instrument ID:	ICPMS1
Client Matrix:	Water	Prep Batch:	460-523620	Lab File ID:	033SMPL.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	05/31/2018 1728	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	05/30/2018 1139				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Arsenic	2.0	U	2.0	NC	20	U
Barium	218		218.6	0.2	20	
Beryllium	0.80	U	0.80	NC	20	U
Cadmium	0.86	J	0.875	2	20	J
Chromium	4.0	U	4.0	NC	20	U
Cobalt	2.0	J	2.00	0.1	20	J
Copper	2.8	J	2.64	4	20	J
Antimony	2.0	U	2.0	NC	20	U
Lead	1.2	U	1.2	NC	20	U
Manganese	72.4		72.12	0.4	20	
Nickel	4.0		3.93	2	20	J
Aluminum	20.1	J	18.97	6	20	J
Selenium	0.86	J	0.916	6	20	J
Magnesium	7340		7274	0.8	20	
Silver	2.0	U	2.0	NC	20	U
Potassium	4200		4202	0.05	20	
Sodium	19600		19610	0	20	
Calcium	8120		8208	1	20	
Iron	120	U	120	NC	20	U
Vanadium	4.0	U	4.0	NC	20	U
Thallium	0.80	U	0.80	NC	20	U
Zinc	27.4		24.48	11	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-523788

### Method: 6020A

### Preparation: 3010A

Lab Sample ID: MB 460-523788/1-A ^2  
Client Matrix: Water  
Dilution: 2.0  
Analysis Date: 05/31/2018 2049  
Prep Date: 05/30/2018 2230  
Leach Date: N/A

Analysis Batch: 460-524183  
Prep Batch: 460-523788  
Leach Batch: N/A  
Units: ug/L

Instrument ID: ICPMS2  
Lab File ID: 0226CCB.D  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	2.0	U	0.77	2.0
Barium	4.0	U	1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Chromium	4.0	U	1.3	4.0
Cobalt	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Antimony	2.0	U	0.62	2.0
Lead	1.2	U	0.37	1.2
Manganese	8.0	U	2.7	8.0
Nickel	4.0	U	1.3	4.0
Aluminum	40.0	U	15.0	40.0
Selenium	10.0	U	0.69	10.0
Magnesium	200	U	65.7	200
Silver	2.0	U	1.4	2.0
Potassium	200	U	64.9	200
Sodium	200	U	75.7	200
Calcium	200	U	67.6	200
Iron	120	U	45.7	120
Vanadium	4.0	U	1.2	4.0
Thallium	0.80	U	0.24	0.80
Zinc	16.0	U	5.4	16.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample - Batch: 460-523788

Method: 6020A

Preparation: 3010A

Lab Sample ID:	LCS 460-523788/2-A ^2	Analysis Batch:	460-524183	Instrument ID:	ICPMS2
Client Matrix:	Water	Prep Batch:	460-523788	Lab File ID:	023SMPL.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/31/2018 2052	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 2230				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	50.0	51.96	104	80 - 120	
Barium	50.0	52.57	105	80 - 120	
Beryllium	25.0	24.80	99	80 - 120	
Cadmium	25.0	25.04	100	80 - 120	
Chromium	50.0	48.18	96	80 - 120	
Cobalt	25.0	24.86	99	80 - 120	
Copper	50.0	49.66	99	80 - 120	
Antimony	25.0	29.87	119	80 - 120	
Lead	25.0	25.25	101	80 - 120	
Manganese	250	254.2	102	80 - 120	
Nickel	50.0	49.18	98	80 - 120	
Aluminum	2500	2492	100	80 - 120	
Selenium	50.0	51.80	104	80 - 120	
Magnesium	2500	2483	99	80 - 120	
Silver	25.0	26.21	105	80 - 120	
Potassium	2500	2616	105	80 - 120	
Sodium	2500	2488	100	80 - 120	
Calcium	2500	2598	104	80 - 120	
Iron	2500	2571	103	80 - 120	
Vanadium	50.0	49.00	98	80 - 120	
Thallium	20.0	19.79	99	80 - 120	
Zinc	250	248.1	99	80 - 120	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Matrix Spike - Batch: 460-523788

Method: 6020A

Preparation: 3010A

Lab Sample ID:	460-156888-E-3-C MS ^2	Analysis Batch:	460-524183	Instrument ID:	ICPMS2
Client Matrix:	Water	Prep Batch:	460-523788	Lab File ID:	025SMPL.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/31/2018 2107	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 2230				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	8.2	50.0	59.45	102	75 - 125	
Barium	31.2	50.0	78.46	95	75 - 125	
Beryllium	4.6	25.0	29.63	100	75 - 125	
Cadmium	43.4	25.0	67.00	94	75 - 125	
Chromium	4.0 U	50.0	46.93	94	75 - 125	
Cobalt	80.8	25.0	102.5	86	75 - 125	
Copper	7.2	50.0	53.57	93	75 - 125	
Antimony	4.0	25.0	28.32	97	75 - 125	
Lead	7.8	25.0	32.90	100	75 - 125	
Manganese	2520	250	2720	81	75 - 125	4
Nickel	26.0	50.0	72.60	93	75 - 125	
Aluminum	15200	2500	17220	83	75 - 125	4
Selenium	0.99 J	50.0	52.94	104	75 - 125	
Magnesium	21700	2500	23580	73	75 - 125	4
Silver	2.0 U	25.0	25.23	101	75 - 125	
Potassium	5750	2500	8136	95	75 - 125	
Sodium	112000	2500	111900	-11	75 - 125	4
Calcium	136000	2500	135000	-44	75 - 125	4
Iron	33100	2500	35140	82	75 - 125	4
Vanadium	1.3 J	50.0	48.73	95	75 - 125	
Thallium	0.56 J	20.0	20.65	100	75 - 125	
Zinc	115	250	344.7	92	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Duplicate - Batch: 460-523788**

**Method: 6020A**  
**Preparation: 3010A**

Lab Sample ID:	460-156888-E-3-B DU ^2	Analysis Batch:	460-524183	Instrument ID:	ICPMS2
Client Matrix:	Water	Prep Batch:	460-523788	Lab File ID:	027SMPL.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/31/2018 2118	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/30/2018 2230				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	8.2	7.84	5	20	
Barium	31.2	31.91	2	20	
Beryllium	4.6	4.63	1	20	
Cadmium	43.4	44.46	2	20	
Chromium	4.0 U	4.0	NC	20	U
Cobalt	80.8	79.59	2	20	
Copper	7.2	7.14	0.9	20	
Antimony	4.0	4.15	4	20	
Lead	7.8	7.68	2	20	
Manganese	2520	2486	1	20	
Nickel	26.0	25.54	2	20	
Aluminum	15200	14900	2	20	
Selenium	0.99 J	1.02	4	20	J
Magnesium	21700	21300	2	20	
Silver	2.0 U	2.0	NC	20	U
Potassium	5750	5620	2	20	
Sodium	112000	109800	2	20	
Calcium	136000	133900	2	20	
Iron	33100	32530	2	20	
Vanadium	1.3 J	1.34	0.7	20	J
Thallium	0.56 J	0.574	3	20	J
Zinc	115	114.0	0.9	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-523825

### Method: 6020A

### Preparation: 3010A

Lab Sample ID: MB 460-523825/1-A ^2  
Client Matrix: Water  
Dilution: 2.0  
Analysis Date: 06/01/2018 1717  
Prep Date: 05/31/2018 0100  
Leach Date: N/A

Analysis Batch: 460-524460  
Prep Batch: 460-523825  
Leach Batch: N/A  
Units: ug/L

Instrument ID: ICPMS1  
Lab File ID: 027\_CCB.D  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	2.0	U	0.77	2.0
Barium	4.0	U	1.1	4.0
Beryllium	0.80	U	0.26	0.80
Cadmium	2.0	U	0.61	2.0
Chromium	4.0	U	1.3	4.0
Cobalt	4.0	U	1.3	4.0
Copper	4.0	U	1.9	4.0
Antimony	2.0	U	0.62	2.0
Lead	1.2	U	0.37	1.2
Manganese	8.0	U	2.7	8.0
Nickel	4.0	U	1.3	4.0
Aluminum	40.0	U	15.0	40.0
Selenium	10.0	U	0.69	10.0
Magnesium	200	U	65.7	200
Silver	2.0	U	1.4	2.0
Potassium	200	U	64.9	200
Sodium	200	U	75.7	200
Calcium	200	U	67.6	200
Iron	120	U	45.7	120
Vanadium	4.0	U	1.2	4.0
Thallium	0.80	U	0.24	0.80
Zinc	16.0	U	5.4	16.0



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Lab Control Sample - Batch: 460-523825

Method: 6020A

Preparation: 3010A

Lab Sample ID:	LCS 460-523825/2-A ^2	Analysis Batch:	460-524460	Instrument ID:	ICPMS1
Client Matrix:	Water	Prep Batch:	460-523825	Lab File ID:	028SMPL.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/01/2018 1720	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/31/2018 0100				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	50.0	48.90	98	80 - 120	
Barium	50.0	50.00	100	80 - 120	
Beryllium	25.0	23.30	93	80 - 120	
Cadmium	25.0	24.96	100	80 - 120	
Chromium	50.0	49.82	100	80 - 120	
Cobalt	25.0	24.72	99	80 - 120	
Copper	50.0	49.86	100	80 - 120	
Antimony	25.0	24.68	99	80 - 120	
Lead	25.0	24.88	100	80 - 120	
Manganese	250	238.4	95	80 - 120	
Nickel	50.0	49.26	99	80 - 120	
Aluminum	2500	2452	98	80 - 120	
Selenium	50.0	50.04	100	80 - 120	
Magnesium	2500	2428	97	80 - 120	
Silver	25.0	26.30	105	80 - 120	
Potassium	2500	2344	94	80 - 120	
Sodium	2500	2640	106	80 - 120	
Calcium	2500	2630	105	80 - 120	
Iron	2500	2534	101	80 - 120	
Vanadium	50.0	49.32	99	80 - 120	
Thallium	20.0	19.51	98	80 - 120	
Zinc	250	234.8	94	80 - 120	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-523825

Method: 6020A  
Preparation: 3010A

MS Lab Sample ID: 460-156834-F-2-C MS ^2  
Client Matrix: Water  
Dilution: 2.0  
Analysis Date: 06/01/2018 1729  
Prep Date: 05/31/2018 0100  
Leach Date: N/A

Instrument ID: ICPMS1  
Lab File ID: 031SMPL.D  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 460-156834-F-2-D MSD ^2  
Client Matrix: Water  
Dilution: 2.0  
Analysis Date: 06/01/2018 1726  
Prep Date: 05/31/2018 0100  
Leach Date: N/A

Instrument ID: ICPMS1  
Lab File ID: 030SMPL.D  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	95	99	75 - 125	3	20		
Barium	94	100	75 - 125	1	20	4	4
Beryllium	96	101	75 - 125	5	20		
Cadmium	99	101	75 - 125	2	20		
Chromium	98	101	75 - 125	3	20		
Cobalt	99	100	75 - 125	2	20		
Copper	96	100	75 - 125	3	20		
Antimony	95	98	75 - 125	3	20		
Lead	100	102	75 - 125	2	20		
Manganese	94	97	75 - 125	2	20		
Nickel	98	98	75 - 125	1	20		
Aluminum	103	107	75 - 125	3	20		
Selenium	93	97	75 - 125	4	20		
Magnesium	101	106	75 - 125	1	20		
Silver	103	106	75 - 125	3	20		
Potassium	114	119	75 - 125	2	20		
Sodium	102	115	75 - 125	1	20	4	4
Calcium	101	105	75 - 125	1	20		
Iron	90	100	75 - 125	5	20		
Vanadium	97	100	75 - 125	3	20		
Thallium	100	102	75 - 125	2	20		
Zinc	92	96	75 - 125	3	20		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Duplicate - Batch: 460-523825**

**Method: 6020A**  
**Preparation: 3010A**

Lab Sample ID:	460-156834-F-2-B DU ^2	Analysis Batch:	460-524460	Instrument ID:	ICPMS1
Client Matrix:	Water	Prep Batch:	460-523825	Lab File ID:	032SMPL.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	06/01/2018 1731	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	05/31/2018 0100				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	4.3	4.32	0.7	20	
Barium	223	227.6	2	20	
Beryllium	0.36 J	0.391	8	20	J
Cadmium	0.89 J	1.06	17	20	J
Chromium	4.6	4.64	0.9	20	
Cobalt	2.3 J	2.38	5	20	J
Copper	4.4	4.28	2	20	
Antimony	0.66 J	0.657	0.4	20	J
Lead	0.56 J	0.583	4	20	J
Manganese	78.9	80.64	2	20	
Nickel	4.4	4.64	5	20	
Aluminum	758	846.6	11	20	
Selenium	1.4 J	1.38	0.8	20	J
Magnesium	7850	8068	3	20	
Silver	2.0 U	2.0	NC	20	U
Potassium	4220	4400	4	20	
Sodium	20600	21100	2	20	
Calcium	8280	8446	2	20	
Iron	2730	2802	3	20	
Vanadium	5.3	5.49	3	20	
Thallium	0.80 U	0.80	NC	20	U
Zinc	25.9	25.96	0.4	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-524351

**Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	MB 460-524351/1-A	Analysis Batch:	460-524421	Instrument ID:	LEEMAN7
Client Matrix:	Water	Prep Batch:	460-524351	Lab File ID:	524351hg1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/01/2018 1434	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	06/01/2018 1241				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.12	0.20

### Lab Control Sample - Batch: 460-524351

**Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	LCS 460-524351/2-A	Analysis Batch:	460-524421	Instrument ID:	LEEMAN7
Client Matrix:	Water	Prep Batch:	460-524351	Lab File ID:	524351hg1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/01/2018 1435	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	06/01/2018 1241				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	1.00	0.944	94	80 - 120	

### Matrix Spike - Batch: 460-524351

**Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	460-156490-E-15-C MS	Analysis Batch:	460-524421	Instrument ID:	LEEMAN7
Client Matrix:	Water	Prep Batch:	460-524351	Lab File ID:	524351hg1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/01/2018 1441	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	06/01/2018 1241				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.20 U	1.00	0.960	96	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Duplicate - Batch: 460-524351**

**Method: 7470A**

**Preparation: 7470A**

Lab Sample ID:	460-156490-A-15-C DU	Analysis Batch:	460-524421	Instrument ID:	LEEMAN7
Client Matrix:	Water	Prep Batch:	460-524351	Lab File ID:	524351hg1.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/01/2018 1439	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	06/01/2018 1241				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.20 U	0.20	NC	20	U



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-524602

**Method: 7470A**  
**Preparation: 7470A**  
**Dissolved**

Lab Sample ID:	MB 460-524594/1-B	Analysis Batch:	460-524653	Instrument ID:	LEEMAN7
Client Matrix:	Water	Prep Batch:	460-524602	Lab File ID:	524594hg.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/02/2018 1949	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	06/02/2018 1258				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.12	0.20

### Lab Control Sample - Batch: 460-524602

**Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	LCS 460-524602/3-A	Analysis Batch:	460-524653	Instrument ID:	LEEMAN7
Client Matrix:	Water	Prep Batch:	460-524602	Lab File ID:	524594hg.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/02/2018 1951	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	06/02/2018 1258				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	1.00	0.864	86	80 - 120	

### Matrix Spike - Batch: 460-524602

**Method: 7470A**  
**Preparation: 7470A**  
**Dissolved**

Lab Sample ID:	460-156490-N-7-D MS	Analysis Batch:	460-524653	Instrument ID:	LEEMAN7
Client Matrix:	Water	Prep Batch:	460-524602	Lab File ID:	524594hg.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	06/02/2018 1956	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	06/02/2018 1258				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.20 U	1.00	0.827	83	75 - 125	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Duplicate - Batch: 460-524602

**Method: 7470A**  
**Preparation: 7470A**  
**Dissolved**

Lab Sample ID: 460-156490-N-7-C DU  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 06/02/2018 1955  
Prep Date: 06/02/2018 1258  
Leach Date: N/A

Analysis Batch: 460-524653  
Prep Batch: 460-524602  
Leach Batch: N/A  
Units: ug/L

Instrument ID: LEEMAN7  
Lab File ID: 524594hg.CSV  
Initial Weight/Volume: 30 mL  
Final Weight/Volume: 30 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.20	U	0.20	NC	20	U



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-523653

### Method: 350.1

### Preparation: Distill/Ammonia

Lab Sample ID: MB 460-523653/1-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/31/2018 1104  
Prep Date: 05/30/2018 1402  
Leach Date: N/A

Analysis Batch: 460-523973  
Prep Batch: 460-523653  
Leach Batch: N/A  
Units: mg/L

Instrument ID: Lachat2  
Lab File ID: A180531.FDT  
Initial Weight/Volume: 50.0 mL  
Final Weight/Volume: 50.0 mL

Analyte	Result	Qual	MDL	RL
Ammonia	0.10	U	0.045	0.10

### Lab Control Sample - Batch: 460-523653

### Method: 350.1

### Preparation: Distill/Ammonia

Lab Sample ID: LCS 460-523653/2-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/31/2018 1105  
Prep Date: 05/30/2018 1402  
Leach Date: N/A

Analysis Batch: 460-523973  
Prep Batch: 460-523653  
Leach Batch: N/A  
Units: mg/L

Instrument ID: Lachat2  
Lab File ID: A180531.FDT  
Initial Weight/Volume: 50.0 mL  
Final Weight/Volume: 50.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	1.00	1.05	105	89 - 113	

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 460-523653

### Method: 350.1

### Preparation: Distill/Ammonia Dissolved

MS Lab Sample ID: 200-43377-B-24-B MS  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/31/2018 1108  
Prep Date: 05/30/2018 1402  
Leach Date: N/A

Analysis Batch: 460-523973  
Prep Batch: 460-523653  
Leach Batch: N/A

Instrument ID: Lachat2  
Lab File ID: A180531.FDT  
Initial Weight/Volume: 50.0 mL  
Final Weight/Volume: 50.0 mL

MSD Lab Sample ID: 200-43377-B-24-C MSD  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/31/2018 1109  
Prep Date: 05/30/2018 1402  
Leach Date: N/A

Analysis Batch: 460-523973  
Prep Batch: 460-523653  
Leach Batch: N/A

Instrument ID: Lachat2  
Lab File ID: A180531.FDT  
Initial Weight/Volume: 50.0 mL  
Final Weight/Volume: 50.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia	113	110	89 - 113	3	17		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-523969

### Method: 350.1

### Preparation: Distill/Ammonia

Lab Sample ID: MB 460-523969/1-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 06/01/2018 1100  
Prep Date: 05/31/2018 1227  
Leach Date: N/A

Analysis Batch: 460-524360  
Prep Batch: 460-523969  
Leach Batch: N/A  
Units: mg/L

Instrument ID: Lachat2  
Lab File ID: A180601.FDT  
Initial Weight/Volume: 50.0 mL  
Final Weight/Volume: 50.0 mL

Analyte	Result	Qual	MDL	RL
Ammonia	0.0713	J	0.045	0.10

### Lab Control Sample - Batch: 460-523969

### Method: 350.1

### Preparation: Distill/Ammonia

Lab Sample ID: LCS 460-523969/2-A  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 06/01/2018 1102  
Prep Date: 05/31/2018 1227  
Leach Date: N/A

Analysis Batch: 460-524360  
Prep Batch: 460-523969  
Leach Batch: N/A  
Units: mg/L

Instrument ID: Lachat2  
Lab File ID: A180601.FDT  
Initial Weight/Volume: 50.0 mL  
Final Weight/Volume: 50.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	1.00	1.02	102	89 - 113	

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 460-523969

### Method: 350.1

### Preparation: Distill/Ammonia

MS Lab Sample ID: 460-156817-8  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 06/01/2018 1105  
Prep Date: 05/31/2018 1227  
Leach Date: N/A

Analysis Batch: 460-524360  
Prep Batch: 460-523969  
Leach Batch: N/A

Instrument ID: Lachat2  
Lab File ID: A180601.FDT  
Initial Weight/Volume: 50.0 mL  
Final Weight/Volume: 50.0 mL

MSD Lab Sample ID: 460-156817-8  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 06/01/2018 1106  
Prep Date: 05/31/2018 1227  
Leach Date: N/A

Analysis Batch: 460-524360  
Prep Batch: 460-523969  
Leach Batch: N/A

Instrument ID: Lachat2  
Lab File ID: A180601.FDT  
Initial Weight/Volume: 50.0 mL  
Final Weight/Volume: 50.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia	99	95	89 - 113	4	17		



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 480-417086

**Method: 351.2**  
**Preparation: 351.2**

Lab Sample ID:	MB 480-417086/1-A	Analysis Batch:	480-417312	Instrument ID:	KONE1
Client Matrix:	Water	Prep Batch:	480-417086	Lab File ID:	TKN05312018CT.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	05/31/2018 0807	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	05/30/2018 1215				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Kjeldahl Nitrogen	0.162	J	0.15	0.20

### Lab Control Sample - Batch: 480-417086

**Method: 351.2**  
**Preparation: 351.2**

Lab Sample ID:	LCS 480-417086/2-A	Analysis Batch:	480-417312	Instrument ID:	KONE1
Client Matrix:	Water	Prep Batch:	480-417086	Lab File ID:	TKN05312018CT.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	05/31/2018 0908	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	05/30/2018 1215				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Kjeldahl Nitrogen	2.50	2.30	92	90 - 110	

### Matrix Spike - Batch: 480-417086

**Method: 351.2**  
**Preparation: 351.2**

Lab Sample ID:	460-156817-1	Analysis Batch:	480-417312	Instrument ID:	KONE1
Client Matrix:	Water	Prep Batch:	480-417086	Lab File ID:	TKN05312018CT.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	05/31/2018 0838	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	05/30/2018 1215				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Total Kjeldahl Nitrogen	0.73	1.00	1.37	64	90 - 110	F1



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Duplicate - Batch: 480-417086**

**Method: 351.2**  
**Preparation: 351.2**

Lab Sample ID: 460-156817-7  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 05/31/2018 0838  
Prep Date: 05/30/2018 1215  
Leach Date: N/A

Analysis Batch: 480-417312  
Prep Batch: 480-417086  
Leach Batch: N/A  
Units: mg/L

Instrument ID: KONE1  
Lab File ID: TKN05312018CT.xls  
Initial Weight/Volume: 25 mL  
Final Weight/Volume: 25 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Total Kjeldahl Nitrogen	0.18	J	0.20	NC	20	U



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 480-418212

Method: 351.2  
Preparation: 351.2

Lab Sample ID:	MB 480-418212/1-A	Analysis Batch:	480-418476	Instrument ID:	KONE1
Client Matrix:	Water	Prep Batch:	480-418212	Lab File ID:	TKN06072018CT.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	06/07/2018 0912	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	06/06/2018 1225				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Kjeldahl Nitrogen	0.20	U	0.15	0.20

### Lab Control Sample - Batch: 480-418212

Method: 351.2  
Preparation: 351.2

Lab Sample ID:	LCS 480-418212/2-A	Analysis Batch:	480-418476	Instrument ID:	KONE1
Client Matrix:	Water	Prep Batch:	480-418212	Lab File ID:	TKN06072018CT.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	06/07/2018 0912	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	06/06/2018 1225				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Kjeldahl Nitrogen	2.50	2.44	98	90 - 110	

### Matrix Spike - Batch: 480-418212

Method: 351.2  
Preparation: 351.2

Lab Sample ID:	460-157230-A-8-B MS	Analysis Batch:	480-418476	Instrument ID:	KONE1
Client Matrix:	Water	Prep Batch:	480-418212	Lab File ID:	TKN06072018CT.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	06/07/2018 1015	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	06/06/2018 1225				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Total Kjeldahl Nitrogen	1.2	1.00	2.38	117	90 - 110	F1



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Duplicate - Batch: 480-418212**

**Method: 351.2**  
**Preparation: 351.2**

Lab Sample ID:	480-136429-C-1-B DU	Analysis Batch:	480-418476	Instrument ID:	KONE1
Client Matrix:	Water	Prep Batch:	480-418212	Lab File ID:	TKN06072018CT.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	06/07/2018 1015	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	06/06/2018 1225				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Kjeldahl Nitrogen	4.6	4.46	4	20	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Method Blank - Batch: 460-522550

**Method: 353.2**  
**Preparation: N/A**

Lab Sample ID:	MB 460-522550/11	Analysis Batch:	460-522550	Instrument ID:	Lachat 4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	OM_5-25-2018_11-11-3
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/25/2018 1124	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrate as N	0.10	U	0.010	0.10
Nitrate Nitrite as N	0.10	U	0.0091	0.10
Nitrite as N	0.10	U	0.0030	0.10

### LCS-Certified Reference Material - Batch: 460-522550

**Method: 353.2**  
**Preparation: N/A**

Lab Sample ID:	LCSSRM 460-522550/12	Analysis Batch:	460-522550	Instrument ID:	Lachat 4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	OM_5-25-2018_11-11-3
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/25/2018 1125	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	1.09	1.09	100.0	88.1 - 111.0	
Nitrate Nitrite as N	1.09	1.09	100.0	88.1 - 111.0	

### LCS-Certified Reference Material - Batch: 460-522550

**Method: 353.2**  
**Preparation: N/A**

Lab Sample ID:	LCSSRM 460-522550/13	Analysis Batch:	460-522550	Instrument ID:	Lachat 4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	OM_5-25-2018_11-11-3
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/25/2018 1125	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N	0.590	0.566	95.9	82.5 - 117.8	



## Quality Control Results

Client: PW Grosser Consulting

Job Number: 460-156817-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-522550

Method: 353.2  
Preparation: N/A

MS Lab Sample ID: 460-156817-3  
Client Matrix: Water  
Dilution: 5.0  
Analysis Date: 05/25/2018 1155  
Prep Date: N/A  
Leach Date: N/A

Analysis Batch: 460-522550  
Prep Batch: N/A  
Leach Batch: N/A

Instrument ID: Lachat 4  
Lab File ID: OM\_5-25-2018\_11-11-3  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 460-156817-3  
Client Matrix: Water  
Dilution: 5.0  
Analysis Date: 05/25/2018 1156  
Prep Date: N/A  
Leach Date: N/A

Analysis Batch: 460-522550  
Prep Batch: N/A  
Leach Batch: N/A

Instrument ID: Lachat 4  
Lab File ID: OM\_5-25-2018\_11-11-3  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrate as N	74	84	85 - 115	4	17	F1	F1
Nitrate Nitrite as N	86	91	85 - 115	3	10		
Nitrite as N	96	96	85 - 117	1	10		




## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice) <b>Jennifer Lewis</b>		Samplers Name (Printed) <b>Nick Tannucci</b>		Site/Project Identification <b>RSL1801</b>	
Company <b>PW Gross Consulting</b>		P.O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>	
Address <b>630 Johnson Ave. Ste. 7</b>		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: <input type="checkbox"/> 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 5 days		Regulatory Program: <input type="checkbox"/> DKQP: <input type="checkbox"/>	
City <b>Bohemia</b>		State <b>NY</b>		LAB USE ONLY Project No:	
Phone <b>(631) 589-6353</b>		Fax		Job No: <b>156817</b>	
Sample Identification		Date	Time	Matrix	No. of Cont.
MW-001	5/23/18	1005	W	16	1
MW-002	1120	16			2
MW-003	1230	16			3
MW-004	1320	16			4
MW-005	1410	16			5
MW-006	1455	16			6
EB-005-EB-003	1130	16			7
DUP-005	XX	16			8
Trip Blank	XX	3			9









SHORT HOLD



460-156817 Chain of Custody

Preservation Used: 1 = ICE, 2 = HCl, 3 = H<sub>2</sub>SO<sub>4</sub>, 4 = HNO<sub>3</sub>, 5 = NaOH, 6 = Other, 7 = Other

### Special Instructions

Relinquished by 	Company <b>PWGL</b>	Date / Time <b>5-23-18 1630</b>	Received by 	Company <b>SA</b>
Relinquished by 	Company <b>SA</b>	Date / Time <b>5/23/18 1850</b>	Received by 	Company <b>SA</b>
Relinquished by 	Company <b>SA</b>	Date / Time <b>5/23/18 1200</b>	Received by 	Company <b>SA</b>
Relinquished by 	Company <b>SA</b>	Date / Time <b>5/23/18 1200</b>	Received by 	Company <b>SA</b>

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

2.0/2.0 2.2/2.2 2.5/2.5 2.8/2.8 3.1/3.1 3.4/3.4 3.7/3.7 4.0/4.0 4.3/4.3 4.6/4.6 4.9/4.9 5.2/5.2 5.5/5.5 5.8/5.8 6.1/6.1 6.4/6.4 6.7/6.7 7.0/7.0 7.3/7.3 7.6/7.6 7.9/7.9 8.2/8.2 8.5/8.5 8.8/8.8 9.1/9.1 9.4/9.4 9.7/9.7 10.0/10.0











Job Number: 152617

Cooler Temperatures		IR Gun		Number of Coolers	
Cooler #1	100°F	Cooler #1	100°F	Cooler #1	100°F
Cooler #2	100°F	Cooler #2	100°F	Cooler #2	100°F
Cooler #3	100°F	Cooler #3	100°F	Cooler #3	100°F

Ammonia	COD	Nitrate	Nitrite	Metals *	Hardness	Pest	EPH or OAM	Phenols	Sulfide	TKN	TOC	Cyanide	Total Phos	Other	Other
(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)

TALS Sample Number	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)	(pH<2)
1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
3	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
6	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
7	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
8	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
9	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

If pH adjustments are required record the information below:

Sample No(s), adjusted:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Expiration Date:

Lot # of Preservative(s):

\*The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted. Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials:

Date:



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:						
Client Contact:		Phone:	Haas, Melissa		460-51668.1						
Shipping/Receiving			E-Mail:	State of Origin:	Page:						
Company:			melissa.haas@testamericainc.com	New York	Page 1 of 1						
Address:			Accreditations Required (See note):		Job #:						
10 Hazelwood Drive,			NELAP - New York		460-156817-1						
City:	Amherst										
State, Zip:	NY, 14228-2298										
Phone:	716-691-2600 (Tel) 716-691-7991 (Fax)										
Email:											
Project Name:	RSL1801 - Island Hills Golf Course										
Site:											
Due Date Requested:		5/30/2018									
TAT Requested (days):											
PO #:											
WO #:											
Project #:	46026226										
SSOW#:											
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=Water, S=solid, O=soil, etc.)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>351.2/351.2 Prep Nitrogen, Total Kjeldahl</b>	<b>Analysis Requested</b>	<b>Preservation Codes:</b>	<b>Special Instructions/Note:</b>
MW-001 (460-156817-1)	5/23/18	10:05 Eastern	Water								
MW-002 (460-156817-2)	5/23/18	11:20 Eastern	Water								
MW-003 (460-156817-3)	5/23/18	12:30 Eastern	Water								
MW-004 (460-156817-4)	5/23/18	13:20 Eastern	Water								
MW-005 (460-156817-5)	5/23/18	14:10 Eastern	Water								
MW-006 (460-156817-6)	5/23/18	14:55 Eastern	Water								
EB-003 (460-156817-7)	5/23/18	11:30 Eastern	Water								
DUP-005 (460-156817-8)	5/23/18	Eastern	Water								
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte &amp; accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>											
<b>Possible Hazard Identification</b>											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify)											
Primary Deliverable Rank: 1											
Empty Kit Relinquished by:											
Date:											
Relinquished by:											
Date/Time:											
Relinquished by:											
Date/Time:											
Relinquished by:											
Date/Time:											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Custody Seal No.:											



## Login Sample Receipt Checklist

Client: PW Grosser Consulting

Job Number: 460-156817-1

Login Number: 156817

List Source: TestAmerica Edison

List Number: 1

Creator: Fernandez, Diana X

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: PW Grosser Consulting

Job Number: 460-156817-1

**Login Number: 156817**  
**List Number: 2**  
**Creator: Hulbert, Michael J**

**List Source: TestAmerica Buffalo**  
**List Creation: 05/25/18 02:38 PM**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



## ANALYTICAL REPORT

Job Number: 460-158175-1

Job Description: RSL1801 - Island Hills Golf Course

For:  
PW Grosser Consulting  
630 Johnson Ave  
Suite 7  
Bohemia, NY 11716  
Attention: Ms. Jennifer Lewis



Approved for release.  
Thomas A Chupela  
Project Management Assistant I  
7/10/2018 12:08 PM

---

Designee for  
Melissa Haas, Project Manager I  
777 New Durham Road, Edison, NJ, 08817  
(203)944-1310  
melissa.haas@testamericainc.com  
07/10/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LA000132

**TestAmerica Laboratories, Inc.**

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817  
Tel (732) 549-3900 Fax (732) 549-3679 [www.testamericainc.com](http://www.testamericainc.com)





Job Number: 460-158175-1

Job Description: RSL1801 - Island Hills Golf Course

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Approved for release.  
Thomas A. Chupela  
Project Management Assistant I  
7/10/2018 12:08 PM

---

Designee for  
Melissa Haas



## CASE NARRATIVE

**Client: PW Grosser Consulting**

**Project: RSL1801 - Island Hills Golf Course**

**Report Number: 460-158175-1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 6/12/2018 9:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.5° C and 2.8° C.

### **Receipt Exceptions**

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The client recorded "HOLD" as part of the sample IDs of some samples but notified the lab that this should not be included in the IDs.

Method(s) 7471B: The following samples were activated by the client on 6/19/18 for Mercury analysis: SS-028 (36'-42") (460-158175-1), SS-049 (0"-3") (460-158175-2), SS-050 (0"-3") (460-158175-3), SS-001 (30"-36") (460-158175-4), SS-001 (36"-42") (460-158175-5), SS-051 (0"-3") (460-158175-6), SS-052 (0"-3") (460-158175-7), SS-052 (18"-24") (460-158175-8), SS-052 (30"-36") (460-158175-9), SS-052 (36"-42") (460-158175-10), SS-025 (30"-36") (460-158175-11), SS-025 (36"-42") (460-158175-12), SS-046 (0"-3") (460-158175-13), SS-047 (0"-3") (460-158175-14), SS-026 (30"-36") (460-158175-15), SS-026 (36"-42") (460-158175-16), SS-027 (30"-36") (460-158175-17), SS-027 (36"-42") (460-158175-18), SS-048 (0"-3") (460-158175-19), SS-028 (30"-36") (460-158175-20), SS-053 (0"-3") (460-158175-21), SS-015 (30"-36") (460-158175-22), SS-015 (36"-42") (460-158175-23), SS-054 (0"-3") (460-158175-24), SS-054 (18"-24") (460-158175-25), SS-054 (30"-36") (460-158175-26), SS-054 (36"-42") (460-158175-27), SS-018 (30"-36") (460-158175-28), SS-018 (36"-42") (460-158175-29), SS-055 (0"-3") (460-158175-30), SS-056 (0"-3") (460-158175-31), SS-057 (0"-3") (460-158175-32), SS-057 (18"-24") (460-158175-33), SS-057 (30"-36") (460-158175-34), SS-057 (36"-42") (460-158175-35), SS-019 (30"-36") (460-158175-36), SS-019 (36"-42") (460-158175-37), SS-058 (0"-3") (460-158175-38), SS-021 (30"-36") (460-158175-39), SS-021 (36"-42") (460-158175-40), SS-034 (30"-36") (460-158175-41), SS-034 (36"-42") (460-158175-42), SS-059 (0"-3") (460-158175-43), SS-059 (18"-24") (460-158175-44), SS-059 (30"-36") (460-158175-45), SS-059 (36"-42") (460-158175-46), SS-010 (30"-36") (460-158175-47), SS-010 (36"-42") (460-158175-48), SS-060 (0"-3") (460-158175-49), SS-060 (18"-24") (460-158175-50), SS-060 (30"-36") (460-158175-51) and SS-060 (36"-42") (460-158175-52).

All remaining contingent samples were cancelled by the client on 7/10/18.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

### **PESTICIDES**

Samples SS-049 (0"-3") (460-158175-2), SS-050 (0"-3") (460-158175-3), SS-051 (0"-3") (460-158175-6), SS-046 (0"-3") (460-158175-13), SS-047 (0"-3") (460-158175-14), SS-048 (0"-3") (460-158175-19), SS-053 (0"-3") (460-158175-21), SS-055 (0"-3") (460-158175-30), SS-056 (0"-3") (460-158175-31) and SS-058 (0"-3") (460-158175-38) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 06/15/2018 and analyzed on 06/16/2018 and 06/17/2018.

No difficulties were encountered during the Pesticides analysis.

All quality control parameters were within the acceptance limits.

### **TOTAL METALS (ICP)**

Sample SS-027 (30"-36") (460-158175-17) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010C. The



samples were prepared on 06/14/2018 and analyzed on 06/15/2018.

Sample SS-027 (30"-36") (460-158175-17)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Total Metals (ICP) analysis.

All quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY**

Samples SS-049 (0"-3") (460-158175-2), SS-050 (0"-3") (460-158175-3), SS-001 (30"-36") (460-158175-4), SS-051 (0"-3") (460-158175-6), SS-052 (0"-3") (460-158175-7), SS-052 (18"-24") (460-158175-8), SS-025 (30"-36") (460-158175-11), SS-025 (36"-42") (460-158175-12), SS-046 (0"-3") (460-158175-13), SS-047 (0"-3") (460-158175-14), SS-026 (30"-36") (460-158175-15), SS-026 (36"-42") (460-158175-16), SS-027 (30"-36") (460-158175-17), SS-048 (0"-3") (460-158175-19), SS-028 (30"-36") (460-158175-20), SS-053 (0"-3") (460-158175-21), SS-015 (30"-36") (460-158175-22), SS-015 (36"-42") (460-158175-23), SS-054 (0"-3") (460-158175-24), SS-054 (18"-24") (460-158175-25), SS-018 (30"-36") (460-158175-28), SS-055 (0"-3") (460-158175-30), SS-056 (0"-3") (460-158175-31), SS-057 (0"-3") (460-158175-32), SS-057 (18"-24") (460-158175-33), SS-019 (30"-36") (460-158175-36), SS-019 (36"-42") (460-158175-37), SS-058 (0"-3") (460-158175-38), SS-021 (30"-36") (460-158175-39), SS-034 (30"-36") (460-158175-41), SS-059 (0"-3") (460-158175-43), SS-059 (18"-24") (460-158175-44), SS-010 (30"-36") (460-158175-47), SS-060 (0"-3") (460-158175-49), SS-060 (18"-24") (460-158175-50), SS-060 (30"-36") (460-158175-51) and SS-060 (36"-42") (460-158175-52) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 06/14/2018, 06/15/2018 and 06/25/2018.

Mercury failed the recovery criteria high for the Matrix Spike (MS) of sample 460-156854-2 in batch 460-528174.

Refer to the QC report for details.

Samples SS-052 (18"-24") (460-158175-8)[2X], SS-025 (30"-36") (460-158175-11)[5X], SS-025 (36"-42") (460-158175-12)[3X], SS-026 (30"-36") (460-158175-15)[5X], SS-026 (36"-42") (460-158175-16)[5X], SS-015 (30"-36") (460-158175-22)[5X], SS-054 (0"-3") (460-158175-24)[20X], SS-057 (0"-3") (460-158175-32)[60X], SS-057 (18"-24") (460-158175-33)[5X], SS-019 (30"-36") (460-158175-36)[2X], SS-019 (36"-42") (460-158175-37)[3X], SS-059 (0"-3") (460-158175-43)[2X], SS-060 (0"-3") (460-158175-49)[20X] and SS-060 (18"-24") (460-158175-50)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

#### **PERCENT SOLIDS/PERCENT MOISTURE**

Samples SS-049 (0"-3") (460-158175-2), SS-050 (0"-3") (460-158175-3), SS-001 (30"-36") (460-158175-4), SS-051 (0"-3") (460-158175-6), SS-052 (0"-3") (460-158175-7), SS-052 (18"-24") (460-158175-8), SS-025 (30"-36") (460-158175-11), SS-025 (36"-42") (460-158175-12), SS-046 (0"-3") (460-158175-13), SS-047 (0"-3") (460-158175-14), SS-026 (30"-36") (460-158175-15), SS-026 (36"-42") (460-158175-16), SS-027 (30"-36") (460-158175-17), SS-048 (0"-3") (460-158175-19), SS-028 (30"-36") (460-158175-20), SS-053 (0"-3") (460-158175-21), SS-015 (30"-36") (460-158175-22), SS-015 (36"-42") (460-158175-23), SS-054 (0"-3") (460-158175-24), SS-054 (18"-24") (460-158175-25), SS-018 (30"-36") (460-158175-28), SS-055 (0"-3") (460-158175-30), SS-056 (0"-3") (460-158175-31), SS-057 (0"-3") (460-158175-32), SS-057 (18"-24") (460-158175-33), SS-019 (30"-36") (460-158175-36), SS-019 (36"-42") (460-158175-37), SS-058 (0"-3") (460-158175-38), SS-021 (30"-36") (460-158175-39), SS-034 (30"-36") (460-158175-41), SS-059 (0"-3") (460-158175-43), SS-059 (18"-24") (460-158175-44), SS-010 (30"-36") (460-158175-47), SS-060 (0"-3") (460-158175-49), SS-060 (18"-24") (460-158175-50), SS-060 (30"-36") (460-158175-51) and SS-060 (36"-42") (460-158175-52) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 06/14/2018 and 06/22/2018.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-158175-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-158175-2</b>	<b>SS-049 (0"-3")</b>					
Mercury		0.040		0.019	mg/Kg	7471B
Percent Moisture		14.0		1.0	%	Moisture
Percent Solids		86.0		1.0	%	Moisture
<b>460-158175-3</b>	<b>SS-050 (0"-3")</b>					
Heptachlor epoxide		0.0027	J	0.0077	mg/Kg	8081B
Mercury		0.35		0.020	mg/Kg	7471B
Percent Moisture		13.2		1.0	%	Moisture
Percent Solids		86.8		1.0	%	Moisture
<b>460-158175-4</b>	<b>SS-001 (30"-36")</b>					
Mercury		0.44		0.017	mg/Kg	7471B
Percent Moisture		5.5		1.0	%	Moisture
Percent Solids		94.5		1.0	%	Moisture
<b>460-158175-6</b>	<b>SS-051 (0"-3")</b>					
4,4'-DDT		0.018		0.0086	mg/Kg	8081B
Mercury		0.12		0.020	mg/Kg	7471B
Percent Moisture		22.5		1.0	%	Moisture
Percent Solids		77.5		1.0	%	Moisture
<b>460-158175-7</b>	<b>SS-052 (0"-3")</b>					
Mercury		0.35		0.019	mg/Kg	7471B
Percent Moisture		14.0		1.0	%	Moisture
Percent Solids		86.0		1.0	%	Moisture
<b>460-158175-8</b>	<b>SS-052 (18"-24")</b>					
Mercury		0.79		0.033	mg/Kg	7471B
Percent Moisture		5.4		1.0	%	Moisture
Percent Solids		94.6		1.0	%	Moisture
<b>460-158175-11</b>	<b>SS-025 (30"-36")</b>					
Mercury		2.6		0.097	mg/Kg	7471B
Percent Moisture		13.4		1.0	%	Moisture
Percent Solids		86.6		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-158175-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-158175-12</b>	<b>SS-025 (36"-42")</b>					
Mercury		1.5		0.054	mg/Kg	7471B
Percent Moisture		12.2		1.0	%	Moisture
Percent Solids		87.8		1.0	%	Moisture
<b>460-158175-13</b>	<b>SS-046 (0"-3")</b>					
4,4'-DDT		0.0080		0.0074	mg/Kg	8081B
Mercury		0.19		0.018	mg/Kg	7471B
Percent Moisture		9.8		1.0	%	Moisture
Percent Solids		90.2		1.0	%	Moisture
<b>460-158175-14</b>	<b>SS-047 (0"-3")</b>					
4,4'-DDT		0.0044	J	0.0073	mg/Kg	8081B
Mercury		0.053		0.018	mg/Kg	7471B
Percent Moisture		8.0		1.0	%	Moisture
Percent Solids		92.0		1.0	%	Moisture
<b>460-158175-15</b>	<b>SS-026 (30"-36")</b>					
Mercury		3.4		0.090	mg/Kg	7471B
Percent Moisture		7.4		1.0	%	Moisture
Percent Solids		92.6		1.0	%	Moisture
<b>460-158175-16</b>	<b>SS-026 (36"-42")</b>					
Mercury		3.0		0.086	mg/Kg	7471B
Percent Moisture		5.8		1.0	%	Moisture
Percent Solids		94.2		1.0	%	Moisture
<b>460-158175-17</b>	<b>SS-027 (30"-36")</b>					
Arsenic		1.3	J	2.5	mg/Kg	6010C
Mercury		0.069		0.017	mg/Kg	7471B
Percent Moisture		5.6		1.0	%	Moisture
Percent Solids		94.4		1.0	%	Moisture
<b>460-158175-19</b>	<b>SS-048 (0"-3")</b>					
4,4'-DDT		0.0050	J	0.0078	mg/Kg	8081B
Mercury		0.14		0.019	mg/Kg	7471B
Percent Moisture		14.6		1.0	%	Moisture
Percent Solids		85.4		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-158175-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-158175-20</b>	<b>SS-028 (30"-36")</b>					
Mercury		0.16		0.016	mg/Kg	7471B
Percent Moisture		3.1		1.0	%	Moisture
Percent Solids		96.9		1.0	%	Moisture
<b>460-158175-21</b>	<b>SS-053 (0"-3")</b>					
Percent Moisture		4.3		1.0	%	Moisture
Percent Solids		95.7		1.0	%	Moisture
<b>460-158175-22</b>	<b>SS-015 (30"-36")</b>					
Mercury		2.4		0.083	mg/Kg	7471B
Percent Moisture		5.9		1.0	%	Moisture
Percent Solids		94.1		1.0	%	Moisture
<b>460-158175-23</b>	<b>SS-015 (36"-42")</b>					
Mercury		0.10		0.018	mg/Kg	7471B
Percent Moisture		7.7		1.0	%	Moisture
Percent Solids		92.3		1.0	%	Moisture
<b>460-158175-24</b>	<b>SS-054 (0"-3")</b>					
Mercury		17.6		0.40	mg/Kg	7471B
Percent Moisture		17.3		1.0	%	Moisture
Percent Solids		82.7		1.0	%	Moisture
<b>460-158175-25</b>	<b>SS-054 (18"-24")</b>					
Mercury		0.12		0.017	mg/Kg	7471B
Percent Moisture		4.8		1.0	%	Moisture
Percent Solids		95.2		1.0	%	Moisture
<b>460-158175-28</b>	<b>SS-018 (30"-36")</b>					
Mercury		0.21		0.019	mg/Kg	7471B
Percent Moisture		9.6		1.0	%	Moisture
Percent Solids		90.4		1.0	%	Moisture
<b>460-158175-30</b>	<b>SS-055 (0"-3")</b>					
4,4'-DDT		0.0049	J	0.0079	mg/Kg	8081B
Mercury		0.19		0.019	mg/Kg	7471B
Percent Moisture		15.6		1.0	%	Moisture
Percent Solids		84.4		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-158175-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-158175-31</b>	<b>SS-056 (0"-3")</b>					
4,4'-DDT		0.011		0.0079	mg/Kg	8081B
Mercury		0.067		0.020	mg/Kg	7471B
Percent Moisture		14.9		1.0	%	Moisture
Percent Solids		85.1		1.0	%	Moisture
<b>460-158175-32</b>	<b>SS-057 (0"-3")</b>					
Mercury		26.7		1.1	mg/Kg	7471B
Percent Moisture		15.4		1.0	%	Moisture
Percent Solids		84.6		1.0	%	Moisture
<b>460-158175-33</b>	<b>SS-057 (18"-24")</b>					
Mercury		1.2		0.092	mg/Kg	7471B
Percent Moisture		11.9		1.0	%	Moisture
Percent Solids		88.1		1.0	%	Moisture
<b>460-158175-36</b>	<b>SS-019 (30"-36")</b>					
Mercury		0.95		0.034	mg/Kg	7471B
Percent Moisture		10.2		1.0	%	Moisture
Percent Solids		89.8		1.0	%	Moisture
<b>460-158175-37</b>	<b>SS-019 (36"-42")</b>					
Mercury		1.8		0.051	mg/Kg	7471B
Percent Moisture		9.9		1.0	%	Moisture
Percent Solids		90.1		1.0	%	Moisture
<b>460-158175-38</b>	<b>SS-058 (0"-3")</b>					
Mercury		0.17		0.017	mg/Kg	7471B
Percent Moisture		10.8		1.0	%	Moisture
Percent Solids		89.2		1.0	%	Moisture
<b>460-158175-39</b>	<b>SS-021 (30"-36")</b>					
Mercury		0.78		0.020	mg/Kg	7471B
Percent Moisture		14.1		1.0	%	Moisture
Percent Solids		85.9		1.0	%	Moisture



## EXECUTIVE SUMMARY - Detections

Client: PW Grosser Consulting

Job Number: 460-158175-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>460-158175-41</b>	<b>SS-034 (30"-36")</b>					
Mercury		0.20		0.018	mg/Kg	7471B
Percent Moisture		12.0		1.0	%	Moisture
Percent Solids		88.0		1.0	%	Moisture
<b>460-158175-43</b>	<b>SS-059 (0"-3")</b>					
Mercury		1.0		0.037	mg/Kg	7471B
Percent Moisture		8.6		1.0	%	Moisture
Percent Solids		91.4		1.0	%	Moisture
<b>460-158175-44</b>	<b>SS-059 (18"-24")</b>					
Mercury		0.47		0.018	mg/Kg	7471B
Percent Moisture		7.5		1.0	%	Moisture
Percent Solids		92.5		1.0	%	Moisture
<b>460-158175-47</b>	<b>SS-010 (30"-36")</b>					
Mercury		0.26		0.018	mg/Kg	7471B
Percent Moisture		10.1		1.0	%	Moisture
Percent Solids		89.9		1.0	%	Moisture
<b>460-158175-49</b>	<b>SS-060 (0"-3")</b>					
Mercury		5.7		0.33	mg/Kg	7471B
Percent Moisture		8.8		1.0	%	Moisture
Percent Solids		91.2		1.0	%	Moisture
<b>460-158175-50</b>	<b>SS-060 (18"-24")</b>					
Mercury		7.5		0.37	mg/Kg	7471B
Percent Moisture		11.3		1.0	%	Moisture
Percent Solids		88.7		1.0	%	Moisture
<b>460-158175-51</b>	<b>SS-060 (30"-36")</b>					
Mercury		0.10		0.018	mg/Kg	7471B
Percent Moisture		9.9		1.0	%	Moisture
Percent Solids		90.1		1.0	%	Moisture
<b>460-158175-52</b>	<b>SS-060 (36"-42")</b>					
Mercury		0.21		0.018	mg/Kg	7471B
Percent Moisture		8.5		1.0	%	Moisture
Percent Solids		91.5		1.0	%	Moisture



## METHOD SUMMARY

Client: PW Grosser Consulting

Job Number: 460-158175-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Organochlorine Pesticides (GC)	TAL EDI	SW846 8081B	
Microwave Extraction	TAL EDI		SW846 3546
Metals (ICP)	TAL EDI	SW846 6010C	
Preparation, Metals	TAL EDI		SW846 3050B
Mercury (CVAA)	TAL EDI	SW846 7471B	
Preparation, Mercury	TAL EDI		SW846 7471B
Percent Moisture	TAL EDI	EPA Moisture	

### Lab References:

TAL EDI = TestAmerica Edison

### Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.



## METHOD / ANALYST SUMMARY

Client: PW Grosser Consulting

Job Number: 460-158175-1

Method	Analyst	Analyst ID
SW846 8081B	Patel, Jignesh	JHP
SW846 6010C	Chang, Churn Der	CDC
SW846 7471B	Staib, Thomas	TJS
EPA Moisture	Potts, Brandon J	BJP



## SAMPLE SUMMARY

Client: PW Grosser Consulting

Job Number: 460-158175-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-158175-2	SS-049 (0"-3")	Solid	06/12/2018 1000	06/12/2018 2100
460-158175-3	SS-050 (0"-3")	Solid	06/12/2018 1010	06/12/2018 2100
460-158175-4	SS-001 (30"-36")	Solid	06/12/2018 1020	06/12/2018 2100
460-158175-6	SS-051 (0"-3")	Solid	06/12/2018 1030	06/12/2018 2100
460-158175-7	SS-052 (0"-3")	Solid	06/12/2018 1050	06/12/2018 2100
460-158175-8	SS-052 (18"-24")	Solid	06/12/2018 1055	06/12/2018 2100
460-158175-11	SS-025 (30"-36")	Solid	06/12/2018 0815	06/12/2018 2100
460-158175-12	SS-025 (36"-42")	Solid	06/12/2018 0820	06/12/2018 2100
460-158175-13	SS-046 (0"-3")	Solid	06/12/2018 0835	06/12/2018 2100
460-158175-14	SS-047 (0"-3")	Solid	06/12/2018 0850	06/12/2018 2100
460-158175-15	SS-026 (30"-36")	Solid	06/12/2018 0900	06/12/2018 2100
460-158175-16	SS-026 (36"-42")	Solid	06/12/2018 0905	06/12/2018 2100
460-158175-17	SS-027 (30"-36")	Solid	06/12/2018 0925	06/12/2018 2100
460-158175-19	SS-048 (0"-3")	Solid	06/12/2018 0935	06/12/2018 2100
460-158175-20	SS-028 (30"-36")	Solid	06/12/2018 0945	06/12/2018 2100
460-158175-21	SS-053 (0"-3")	Solid	06/12/2018 1115	06/12/2018 2100
460-158175-22	SS-015 (30"-36")	Solid	06/12/2018 1130	06/12/2018 2100
460-158175-23	SS-015 (36"-42")	Solid	06/12/2018 1135	06/12/2018 2100
460-158175-24	SS-054 (0"-3")	Solid	06/12/2018 1200	06/12/2018 2100
460-158175-25	SS-054 (18"-24")	Solid	06/12/2018 1202	06/12/2018 2100
460-158175-28	SS-018 (30"-36")	Solid	06/12/2018 1215	06/12/2018 2100
460-158175-30	SS-055 (0"-3")	Solid	06/12/2018 1230	06/12/2018 2100
460-158175-31	SS-056 (0"-3")	Solid	06/12/2018 1250	06/12/2018 2100
460-158175-32	SS-057 (0"-3")	Solid	06/12/2018 1300	06/12/2018 2100
460-158175-33	SS-057 (18"-24")	Solid	06/12/2018 1305	06/12/2018 2100
460-158175-36	SS-019 (30"-36")	Solid	06/12/2018 1325	06/12/2018 2100
460-158175-37	SS-019 (36"-42")	Solid	06/12/2018 1330	06/12/2018 2100
460-158175-38	SS-058 (0"-3")	Solid	06/12/2018 1340	06/12/2018 2100
460-158175-39	SS-021 (30"-36")	Solid	06/12/2018 1400	06/12/2018 2100
460-158175-41	SS-034 (30"-36")	Solid	06/12/2018 1430	06/12/2018 2100
460-158175-43	SS-059 (0"-3")	Solid	06/12/2018 1455	06/12/2018 2100
460-158175-44	SS-059 (18"-24")	Solid	06/12/2018 1500	06/12/2018 2100
460-158175-47	SS-010 (30"-36")	Solid	06/12/2018 1530	06/12/2018 2100
460-158175-49	SS-060 (0"-3")	Solid	06/12/2018 1600	06/12/2018 2100
460-158175-50	SS-060 (18"-24")	Solid	06/12/2018 1605	06/12/2018 2100
460-158175-51	SS-060 (30"-36")	Solid	06/12/2018 1610	06/12/2018 2100
460-158175-52	SS-060 (36"-42")	Solid	06/12/2018 1615	06/12/2018 2100



# **SAMPLE RESULTS**



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

Client Sample ID: **SS-049 (0"-3")**

Lab Sample ID: 460-158175-2

Date Sampled: 06/12/2018 1000

Client Matrix: Solid

% Moisture: 14.0

Date Received: 06/12/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0002 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/16/2018 2302

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0078	U	0.0013	0.0078
4,4'-DDE		0.0078	U	0.00092	0.0078
4,4'-DDT		0.0078	U	0.0014	0.0078
Aldrin		0.0078	U	0.0012	0.0078
alpha-BHC		0.0023	U	0.00079	0.0023
beta-BHC		0.0023	U	0.00087	0.0023
Chlordane (technical)		0.078	U	0.019	0.078
delta-BHC		0.0023	U	0.00048	0.0023
Dieldrin		0.0023	U	0.0010	0.0023
Endosulfan I		0.0078	U	0.0012	0.0078
Endosulfan II		0.0078	U	0.0020	0.0078
Endosulfan sulfate		0.0078	U	0.00098	0.0078
Endrin		0.0078	U	0.0011	0.0078
Endrin aldehyde		0.0078	U	0.0018	0.0078
Endrin ketone		0.0078	U	0.0015	0.0078
gamma-BHC (Lindane)		0.0023	U	0.00072	0.0023
Heptachlor		0.0078	U	0.00092	0.0078
Heptachlor epoxide		0.0078	U	0.0012	0.0078
Methoxychlor		0.0078	U	0.0018	0.0078
Toxaphene		0.078	U	0.028	0.078

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	97		69 - 150
Tetrachloro-m-xylene	102		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-049 (0"-3")**

Lab Sample ID: 460-158175-2

Date Sampled: 06/12/2018 1000

Client Matrix: Solid

% Moisture: 14.0

Date Received: 06/12/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0002 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/16/2018 2302

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	96		69 - 150
Tetrachloro-m-xylene	101		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-050 (0"-3")**

Lab Sample ID: 460-158175-3

Date Sampled: 06/12/2018 1010

Client Matrix: Solid

% Moisture: 13.2

Date Received: 06/12/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0019 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/16/2018 2315

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0077	U	0.0013	0.0077
4,4'-DDE		0.0077	U	0.00091	0.0077
4,4'-DDT		0.0077	U	0.0014	0.0077
Aldrin		0.0077	U	0.0012	0.0077
alpha-BHC		0.0023	U	0.00078	0.0023
beta-BHC		0.0023	U	0.00086	0.0023
Chlordane (technical)		0.077	U	0.019	0.077
delta-BHC		0.0023	U	0.00047	0.0023
Dieldrin		0.0023	U	0.0010	0.0023
Endosulfan I		0.0077	U	0.0012	0.0077
Endosulfan II		0.0077	U	0.0020	0.0077
Endosulfan sulfate		0.0077	U	0.00097	0.0077
Endrin		0.0077	U	0.0011	0.0077
Endrin aldehyde		0.0077	U	0.0018	0.0077
Endrin ketone		0.0077	U	0.0015	0.0077
gamma-BHC (Lindane)		0.0023	U	0.00071	0.0023
Heptachlor		0.0077	U	0.00091	0.0077
Heptachlor epoxide		0.0027	J	0.0012	0.0077
Methoxychlor		0.0077	U	0.0018	0.0077
Toxaphene		0.077	U	0.028	0.077

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	102		69 - 150
Tetrachloro-m-xylene	106		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-050 (0"-3")**

Lab Sample ID: 460-158175-3

Date Sampled: 06/12/2018 1010

Client Matrix: Solid

% Moisture: 13.2

Date Received: 06/12/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0019 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/16/2018 2315

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	101		69 - 150
Tetrachloro-m-xylene	102		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

Client Sample ID: SS-051 (0"-3")

Lab Sample ID: 460-158175-6

Client Matrix: Solid

% Moisture: 22.5

Date Sampled: 06/12/2018 1030

Date Received: 06/12/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 06/16/2018 2328

Prep Date: 06/15/2018 2137

Analysis Batch: 460-528453

Prep Batch: 460-528294

Instrument ID: CPESTGC5

Initial Weight/Volume: +15.0087 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0086	U	0.0015	0.0086
4,4'-DDE		0.0086	U	0.0010	0.0086
4,4'-DDT		0.018		0.0016	0.0086
Aldrin		0.0086	U	0.0013	0.0086
alpha-BHC		0.0026	U	0.00088	0.0026
beta-BHC		0.0026	U	0.00097	0.0026
Chlordane (technical)		0.086	U	0.021	0.086
delta-BHC		0.0026	U	0.00053	0.0026
Dieldrin		0.0026	U	0.0011	0.0026
Endosulfan I		0.0086	U	0.0013	0.0086
Endosulfan II		0.0086	U	0.0022	0.0086
Endosulfan sulfate		0.0086	U	0.0011	0.0086
Endrin		0.0086	U	0.0012	0.0086
Endrin aldehyde		0.0086	U	0.0020	0.0086
Endrin ketone		0.0086	U	0.0017	0.0086
gamma-BHC (Lindane)		0.0026	U	0.00080	0.0026
Heptachlor		0.0086	U	0.0010	0.0086
Heptachlor epoxide		0.0086	U	0.0013	0.0086
Methoxychlor		0.0086	U	0.0020	0.0086
Toxaphene		0.086	U	0.031	0.086

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	109		69 - 150
Tetrachloro-m-xylene	114		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-051 (0"-3")**

Lab Sample ID: 460-158175-6

Date Sampled: 06/12/2018 1030

Client Matrix: Solid

% Moisture: 22.5

Date Received: 06/12/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0087 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/16/2018 2328

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	107		69 - 150
Tetrachloro-m-xylene	110		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

Client Sample ID: **SS-046 (0"-3")**

Lab Sample ID: 460-158175-13

Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 06/12/2018 0835

Date Received: 06/12/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 06/16/2018 2341

Prep Date: 06/15/2018 2137

Analysis Batch: 460-528453

Prep Batch: 460-528294

Instrument ID: CPESTGC5

Initial Weight/Volume: +15.0016 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0074	U	0.0013	0.0074
4,4'-DDE		0.0074	U	0.00088	0.0074
4,4'-DDT		0.0080		0.0014	0.0074
Aldrin		0.0074	U	0.0011	0.0074
alpha-BHC		0.0022	U	0.00075	0.0022
beta-BHC		0.0022	U	0.00083	0.0022
Chlordane (technical)		0.074	U	0.018	0.074
delta-BHC		0.0022	U	0.00045	0.0022
Dieldrin		0.0022	U	0.00096	0.0022
Endosulfan I		0.0074	U	0.0011	0.0074
Endosulfan II		0.0074	U	0.0019	0.0074
Endosulfan sulfate		0.0074	U	0.00093	0.0074
Endrin		0.0074	U	0.0011	0.0074
Endrin aldehyde		0.0074	U	0.0018	0.0074
Endrin ketone		0.0074	U	0.0014	0.0074
gamma-BHC (Lindane)		0.0022	U	0.00069	0.0022
Heptachlor		0.0074	U	0.00088	0.0074
Heptachlor epoxide		0.0074	U	0.0011	0.0074
Methoxychlor		0.0074	U	0.0017	0.0074
Toxaphene		0.074	U	0.027	0.074

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	95		69 - 150
Tetrachloro-m-xylene	100		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-046 (0"-3")**

Lab Sample ID: 460-158175-13

Date Sampled: 06/12/2018 0835

Client Matrix: Solid

% Moisture: 9.8

Date Received: 06/12/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0016 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/16/2018 2341

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	92		69 - 150
Tetrachloro-m-xylene	99		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

Client Sample ID: **SS-047 (0"-3")**

Lab Sample ID: 460-158175-14

Client Matrix: Solid

% Moisture: 8.0

Date Sampled: 06/12/2018 0850

Date Received: 06/12/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 06/16/2018 2354

Prep Date: 06/15/2018 2137

Analysis Batch: 460-528453

Prep Batch: 460-528294

Instrument ID: CPESTGC5

Initial Weight/Volume: +15.0441 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0073	U	0.0012	0.0073
4,4'-DDE		0.0073	U	0.00086	0.0073
4,4'-DDT		0.0044	J	0.0013	0.0073
Aldrin		0.0073	U	0.0011	0.0073
alpha-BHC		0.0022	U	0.00074	0.0022
beta-BHC		0.0022	U	0.00081	0.0022
Chlordane (technical)		0.073	U	0.018	0.073
delta-BHC		0.0022	U	0.00044	0.0022
Dieldrin		0.0022	U	0.00094	0.0022
Endosulfan I		0.0073	U	0.0011	0.0073
Endosulfan II		0.0073	U	0.0019	0.0073
Endosulfan sulfate		0.0073	U	0.00091	0.0073
Endrin		0.0073	U	0.0010	0.0073
Endrin aldehyde		0.0073	U	0.0017	0.0073
Endrin ketone		0.0073	U	0.0014	0.0073
gamma-BHC (Lindane)		0.0022	U	0.00067	0.0022
Heptachlor		0.0073	U	0.00086	0.0073
Heptachlor epoxide		0.0073	U	0.0011	0.0073
Methoxychlor		0.0073	U	0.0017	0.0073
Toxaphene		0.073	U	0.026	0.073

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	101		69 - 150
Tetrachloro-m-xylene	106		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-047 (0"-3")**

Lab Sample ID: 460-158175-14

Date Sampled: 06/12/2018 0850

Client Matrix: Solid

% Moisture: 8.0

Date Received: 06/12/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0441 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/16/2018 2354

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	101		69 - 150
Tetrachloro-m-xylene	102		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

Client Sample ID: **SS-048 (0"-3")**

Lab Sample ID: 460-158175-19

Client Matrix: Solid

% Moisture: 14.6

Date Sampled: 06/12/2018 0935

Date Received: 06/12/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 06/17/2018 0006

Prep Date: 06/15/2018 2137

Analysis Batch: 460-528453

Prep Batch: 460-528294

Instrument ID: CPESTGC5

Initial Weight/Volume: +15.0029 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0078	U	0.0013	0.0078
4,4'-DDE		0.0078	U	0.00092	0.0078
4,4'-DDT		0.0050	J	0.0014	0.0078
Aldrin		0.0078	U	0.0012	0.0078
alpha-BHC		0.0023	U	0.00080	0.0023
beta-BHC		0.0023	U	0.00088	0.0023
Chlordane (technical)		0.078	U	0.019	0.078
delta-BHC		0.0023	U	0.00048	0.0023
Dieldrin		0.0023	U	0.0010	0.0023
Endosulfan I		0.0078	U	0.0012	0.0078
Endosulfan II		0.0078	U	0.0020	0.0078
Endosulfan sulfate		0.0078	U	0.00098	0.0078
Endrin		0.0078	U	0.0011	0.0078
Endrin aldehyde		0.0078	U	0.0018	0.0078
Endrin ketone		0.0078	U	0.0015	0.0078
gamma-BHC (Lindane)		0.0023	U	0.00073	0.0023
Heptachlor		0.0078	U	0.00092	0.0078
Heptachlor epoxide		0.0078	U	0.0012	0.0078
Methoxychlor		0.0078	U	0.0018	0.0078
Toxaphene		0.078	U	0.028	0.078

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	141		69 - 150
Tetrachloro-m-xylene	145		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-048 (0"-3")**

Lab Sample ID: 460-158175-19

Date Sampled: 06/12/2018 0935

Client Matrix: Solid

% Moisture: 14.6

Date Received: 06/12/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0029 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/17/2018 0006

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	136		69 - 150
Tetrachloro-m-xylene	143		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

Client Sample ID: SS-053 (0"-3")

Lab Sample ID: 460-158175-21

Client Matrix: Solid

% Moisture: 4.3

Date Sampled: 06/12/2018 1115

Date Received: 06/12/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0166 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/17/2018 0019

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0070	U	0.0012	0.0070
4,4'-DDE		0.0070	U	0.00082	0.0070
4,4'-DDT		0.0070	U	0.0013	0.0070
Aldrin		0.0070	U	0.0011	0.0070
alpha-BHC		0.0021	U	0.00071	0.0021
beta-BHC		0.0021	U	0.00078	0.0021
Chlordane (technical)		0.070	U	0.017	0.070
delta-BHC		0.0021	U	0.00043	0.0021
Dieldrin		0.0021	U	0.00091	0.0021
Endosulfan I		0.0070	U	0.0011	0.0070
Endosulfan II		0.0070	U	0.0018	0.0070
Endosulfan sulfate		0.0070	U	0.00088	0.0070
Endrin		0.0070	U	0.0010	0.0070
Endrin aldehyde		0.0070	U	0.0016	0.0070
Endrin ketone		0.0070	U	0.0014	0.0070
gamma-BHC (Lindane)		0.0021	U	0.00065	0.0021
Heptachlor		0.0070	U	0.00082	0.0070
Heptachlor epoxide		0.0070	U	0.0010	0.0070
Methoxychlor		0.0070	U	0.0016	0.0070
Toxaphene		0.070	U	0.025	0.070

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	113		69 - 150
Tetrachloro-m-xylene	116		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-053 (0"-3")**

Lab Sample ID: 460-158175-21

Date Sampled: 06/12/2018 1115

Client Matrix: Solid

% Moisture: 4.3

Date Received: 06/12/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0166 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/17/2018 0019

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	109		69 - 150
Tetrachloro-m-xylene	114		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

Client Sample ID: SS-055 (0"-3")

Lab Sample ID: 460-158175-30

Client Matrix: Solid

% Moisture: 15.6

Date Sampled: 06/12/2018 1230

Date Received: 06/12/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0050 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/17/2018 0032

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0079	U	0.0014	0.0079
4,4'-DDE		0.0079	U	0.00094	0.0079
4,4'-DDT		0.0049	J	0.0015	0.0079
Aldrin		0.0079	U	0.0012	0.0079
alpha-BHC		0.0024	U	0.00081	0.0024
beta-BHC		0.0024	U	0.00089	0.0024
Chlordane (technical)		0.079	U	0.019	0.079
delta-BHC		0.0024	U	0.00049	0.0024
Dieldrin		0.0024	U	0.0010	0.0024
Endosulfan I		0.0079	U	0.0012	0.0079
Endosulfan II		0.0079	U	0.0020	0.0079
Endosulfan sulfate		0.0079	U	0.0010	0.0079
Endrin		0.0079	U	0.0011	0.0079
Endrin aldehyde		0.0079	U	0.0019	0.0079
Endrin ketone		0.0079	U	0.0015	0.0079
gamma-BHC (Lindane)		0.0024	U	0.00073	0.0024
Heptachlor		0.0079	U	0.00094	0.0079
Heptachlor epoxide		0.0079	U	0.0012	0.0079
Methoxychlor		0.0079	U	0.0018	0.0079
Toxaphene		0.079	U	0.029	0.079

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	105		69 - 150
Tetrachloro-m-xylene	110		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-055 (0"-3")**

Lab Sample ID: 460-158175-30

Date Sampled: 06/12/2018 1230

Client Matrix: Solid

% Moisture: 15.6

Date Received: 06/12/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0050 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/17/2018 0032

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	105		69 - 150
Tetrachloro-m-xylene	108		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

Client Sample ID: SS-056 (0"-3")

Lab Sample ID: 460-158175-31

Client Matrix: Solid

% Moisture: 14.9

Date Sampled: 06/12/2018 1250

Date Received: 06/12/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Prep Method: 3546

Dilution: 1.0

Analysis Date: 06/17/2018 0045

Prep Date: 06/15/2018 2137

Analysis Batch: 460-528453

Prep Batch: 460-528294

Instrument ID: CPESTGC5

Initial Weight/Volume: +15.0081 g

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0079	U	0.0013	0.0079
4,4'-DDE		0.0079	U	0.00093	0.0079
4,4'-DDT		0.011		0.0014	0.0079
Aldrin		0.0079	U	0.0012	0.0079
alpha-BHC		0.0023	U	0.00080	0.0023
beta-BHC		0.0023	U	0.00088	0.0023
Chlordane (technical)		0.079	U	0.019	0.079
delta-BHC		0.0023	U	0.00048	0.0023
Dieldrin		0.0023	U	0.0010	0.0023
Endosulfan I		0.0079	U	0.0012	0.0079
Endosulfan II		0.0079	U	0.0020	0.0079
Endosulfan sulfate		0.0079	U	0.00099	0.0079
Endrin		0.0079	U	0.0011	0.0079
Endrin aldehyde		0.0079	U	0.0019	0.0079
Endrin ketone		0.0079	U	0.0015	0.0079
gamma-BHC (Lindane)		0.0023	U	0.00073	0.0023
Heptachlor		0.0079	U	0.00093	0.0079
Heptachlor epoxide		0.0079	U	0.0012	0.0079
Methoxychlor		0.0079	U	0.0018	0.0079
Toxaphene		0.079	U	0.028	0.079

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	114		69 - 150
Tetrachloro-m-xylene	115		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-056 (0"-3")**

Lab Sample ID: 460-158175-31

Date Sampled: 06/12/2018 1250

Client Matrix: Solid

% Moisture: 14.9

Date Received: 06/12/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0081 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/17/2018 0045

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	108		69 - 150
Tetrachloro-m-xylene	114		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-058 (0"-3")**

Lab Sample ID: 460-158175-38

Date Sampled: 06/12/2018 1340

Client Matrix: Solid

% Moisture: 10.8

Date Received: 06/12/2018 2100

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0339 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/17/2018 0058

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.0075	U	0.0013	0.0075
4,4'-DDE		0.0075	U	0.00088	0.0075
4,4'-DDT		0.0075	U	0.0014	0.0075
Aldrin		0.0075	U	0.0011	0.0075
alpha-BHC		0.0022	U	0.00076	0.0022
beta-BHC		0.0022	U	0.00084	0.0022
Chlordane (technical)		0.075	U	0.018	0.075
delta-BHC		0.0022	U	0.00046	0.0022
Dieldrin		0.0022	U	0.00097	0.0022
Endosulfan I		0.0075	U	0.0011	0.0075
Endosulfan II		0.0075	U	0.0019	0.0075
Endosulfan sulfate		0.0075	U	0.00094	0.0075
Endrin		0.0075	U	0.0011	0.0075
Endrin aldehyde		0.0075	U	0.0018	0.0075
Endrin ketone		0.0075	U	0.0015	0.0075
gamma-BHC (Lindane)		0.0022	U	0.00069	0.0022
Heptachlor		0.0075	U	0.00088	0.0075
Heptachlor epoxide		0.0075	U	0.0011	0.0075
Methoxychlor		0.0075	U	0.0017	0.0075
Toxaphene		0.075	U	0.027	0.075

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	106		69 - 150
Tetrachloro-m-xylene	110		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-058 (0"-3")**

Lab Sample ID: 460-158175-38

Date Sampled: 06/12/2018 1340

Client Matrix: Solid

% Moisture: 10.8

Date Received: 06/12/2018 2100

---

### 8081B Organochlorine Pesticides (GC)

Analysis Method: 8081B

Analysis Batch: 460-528453

Instrument ID: CPESTGC5

Prep Method: 3546

Prep Batch: 460-528294

Initial Weight/Volume: +15.0339 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 06/17/2018 0058

Injection Volume: 1 uL

Prep Date: 06/15/2018 2137

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	104		69 - 150
Tetrachloro-m-xylene	105		74 - 150



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-049 (0"-3")**

Lab Sample ID: 460-158175-2

Date Sampled: 06/12/2018 1000

Client Matrix: Solid

% Moisture: 14.0

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-527805

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-527687

Lab File ID: 527672HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 06/14/2018 1029

Final Weight/Volume: 50 mL

Prep Date: 06/14/2018 0511

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.040		0.011	0.019



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-050 (0"-3")**

Lab Sample ID: 460-158175-3

Date Sampled: 06/12/2018 1010

Client Matrix: Solid

% Moisture: 13.2

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-527805

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-527687

Lab File ID: 527672HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.60 g

Analysis Date: 06/14/2018 1031

Final Weight/Volume: 50 mL

Prep Date: 06/14/2018 0511

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.35		0.012	0.020



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-001 (30"-36")**

Lab Sample ID: 460-158175-4

Date Sampled: 06/12/2018 1020

Client Matrix: Solid

% Moisture: 5.5

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-527805

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-527687

Lab File ID: 527672HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.62 g

Analysis Date: 06/14/2018 1033

Final Weight/Volume: 50 mL

Prep Date: 06/14/2018 0511

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.44		0.010	0.017



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-051 (0"-3")**

Lab Sample ID: 460-158175-6

Date Sampled: 06/12/2018 1030

Client Matrix: Solid

% Moisture: 22.5

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-527805

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-527687

Lab File ID: 527672HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.65 g

Analysis Date: 06/14/2018 1035

Final Weight/Volume: 50 mL

Prep Date: 06/14/2018 0511

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.12		0.012	0.020



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-052 (0"-3")**

Lab Sample ID: 460-158175-7

Date Sampled: 06/12/2018 1050

Client Matrix: Solid

% Moisture: 14.0

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-527805

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-527687

Lab File ID: 527672HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 06/14/2018 1037

Final Weight/Volume: 50 mL

Prep Date: 06/14/2018 0511

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.35		0.011	0.019



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-052 (18"-24")**

Lab Sample ID: 460-158175-8

Date Sampled: 06/12/2018 1055

Client Matrix: Solid

% Moisture: 5.4

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-527805

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-527687

Lab File ID: 527672HG1.CSV

Dilution: 2.0

Initial Weight/Volume: 0.66 g

Analysis Date: 06/14/2018 1100

Final Weight/Volume: 50 mL

Prep Date: 06/14/2018 0511

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.79		0.019	0.033



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-025 (30"-36")**

Lab Sample ID: 460-158175-11

Date Sampled: 06/12/2018 0815

Client Matrix: Solid

% Moisture: 13.4

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-528174

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-528000

Lab File ID: 528000HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.61 g

Analysis Date: 06/15/2018 1137

Final Weight/Volume: 50 mL

Prep Date: 06/15/2018 0407

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.6		0.057	0.097



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-025 (36"-42")**

Lab Sample ID: 460-158175-12

Date Sampled: 06/12/2018 0820

Client Matrix: Solid

% Moisture: 12.2

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-530775

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-530662

Lab File ID: 530631HG1.CSV

Dilution: 3.0

Initial Weight/Volume: 0.65 g

Analysis Date: 06/25/2018 1151

Final Weight/Volume: 50 mL

Prep Date: 06/25/2018 0549

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.5		0.032	0.054



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-046 (0"-3")**

Lab Sample ID: 460-158175-13

Date Sampled: 06/12/2018 0835

Client Matrix: Solid

% Moisture: 9.8

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-527805

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-527687

Lab File ID: 527672HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 06/14/2018 1047

Final Weight/Volume: 50 mL

Prep Date: 06/14/2018 0511

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.19		0.011	0.018



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-047 (0"-3")**

Lab Sample ID: 460-158175-14

Date Sampled: 06/12/2018 0850

Client Matrix: Solid

% Moisture: 8.0

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-527805

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-527687

Lab File ID: 527672HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.62 g

Analysis Date: 06/14/2018 1049

Final Weight/Volume: 50 mL

Prep Date: 06/14/2018 0511

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.053		0.011	0.018



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-026 (30"-36")**

Lab Sample ID: 460-158175-15

Date Sampled: 06/12/2018 0900

Client Matrix: Solid

% Moisture: 7.4

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-527805

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-527687

Lab File ID: 527672HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.61 g

Analysis Date: 06/14/2018 1102

Final Weight/Volume: 50 mL

Prep Date: 06/14/2018 0511

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.4		0.053	0.090



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-026 (36"-42")**

Lab Sample ID: 460-158175-16

Date Sampled: 06/12/2018 0905

Client Matrix: Solid

% Moisture: 5.8

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-530775

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-530662

Lab File ID: 530631HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.63 g

Analysis Date: 06/25/2018 1153

Final Weight/Volume: 50 mL

Prep Date: 06/25/2018 0549

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.0		0.051	0.086



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-027 (30"-36")**

Lab Sample ID: 460-158175-17

Date Sampled: 06/12/2018 0925

Client Matrix: Solid

% Moisture: 5.6

Date Received: 06/12/2018 2100

---

### 6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-528214

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-527971

Lab File ID: 528132D1.asc

Dilution: 4.0

Initial Weight/Volume: 1.27 g

Analysis Date: 06/15/2018 1739

Final Weight/Volume: 50 mL

Prep Date: 06/14/2018 2045

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		1.3	J	0.62	2.5

---

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-527805

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-527687

Lab File ID: 527672HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.62 g

Analysis Date: 06/14/2018 1104

Final Weight/Volume: 50 mL

Prep Date: 06/14/2018 0511

---

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.069		0.010	0.017

---



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-048 (0"-3")**

Lab Sample ID: 460-158175-19

Date Sampled: 06/12/2018 0935

Client Matrix: Solid

% Moisture: 14.6

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-528174

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-528000

Lab File ID: 528000HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 06/15/2018 1140

Final Weight/Volume: 50 mL

Prep Date: 06/15/2018 0407

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.14		0.011	0.019



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-028 (30"-36")**

Lab Sample ID: 460-158175-20

Date Sampled: 06/12/2018 0945

Client Matrix: Solid

% Moisture: 3.1

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-528174

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-528000

Lab File ID: 528000HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.65 g

Analysis Date: 06/15/2018 0847

Final Weight/Volume: 50 mL

Prep Date: 06/15/2018 0407

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.16		0.0095	0.016



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-053 (0"-3")**

Lab Sample ID: 460-158175-21

Date Sampled: 06/12/2018 1115

Client Matrix: Solid

% Moisture: 4.3

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-528174

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-528000

Lab File ID: 528000HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.66 g

Analysis Date: 06/15/2018 0848

Final Weight/Volume: 50 mL

Prep Date: 06/15/2018 0407

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.016	U	0.0095	0.016



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-015 (30"-36")**

Lab Sample ID: 460-158175-22

Date Sampled: 06/12/2018 1130

Client Matrix: Solid

% Moisture: 5.9

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-528174

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-528000

Lab File ID: 528000HG1.CSV

Dilution: 5.0

Initial Weight/Volume: 0.65 g

Analysis Date: 06/15/2018 1142

Final Weight/Volume: 50 mL

Prep Date: 06/15/2018 0407

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.4		0.049	0.083



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-015 (36"-42")**

Lab Sample ID: 460-158175-23

Date Sampled: 06/12/2018 1135

Client Matrix: Solid

% Moisture: 7.7

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-530775

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-530662

Lab File ID: 530631HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.60 g

Analysis Date: 06/25/2018 1156

Final Weight/Volume: 50 mL

Prep Date: 06/25/2018 0549

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.10		0.011	0.018



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-054 (0"-3")**

Lab Sample ID: 460-158175-24

Date Sampled: 06/12/2018 1200

Client Matrix: Solid

% Moisture: 17.3

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-528174

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-528000

Lab File ID: 528000HG1.CSV

Dilution: 20

Initial Weight/Volume: 0.61 g

Analysis Date: 06/15/2018 1144

Final Weight/Volume: 50 mL

Prep Date: 06/15/2018 0407

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		17.6		0.24	0.40



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-054 (18"-24")**

Lab Sample ID: 460-158175-25

Date Sampled: 06/12/2018 1202

Client Matrix: Solid

% Moisture: 4.8

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-528174

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-528000

Lab File ID: 528000HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.63 g

Analysis Date: 06/15/2018 1147

Final Weight/Volume: 50 mL

Prep Date: 06/15/2018 0407

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.12		0.010	0.017



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-018 (30"-36")**

Lab Sample ID: 460-158175-28

Date Sampled: 06/12/2018 1215

Client Matrix: Solid

% Moisture: 9.6

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-528174

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-528000

Lab File ID: 528000HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 06/15/2018 0859

Final Weight/Volume: 50 mL

Prep Date: 06/15/2018 0407

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.21		0.011	0.019



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-055 (0"-3")**

Lab Sample ID: 460-158175-30

Date Sampled: 06/12/2018 1230

Client Matrix: Solid

% Moisture: 15.6

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-528174

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-528000

Lab File ID: 528000HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.62 g

Analysis Date: 06/15/2018 0901

Final Weight/Volume: 50 mL

Prep Date: 06/15/2018 0407

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.19		0.011	0.019



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-056 (0"-3")**

Lab Sample ID: 460-158175-31

Date Sampled: 06/12/2018 1250

Client Matrix: Solid

% Moisture: 14.9

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-528174

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-528000

Lab File ID: 528000HG1.CSV

Dilution: 1.0

Initial Weight/Volume: 0.61 g

Analysis Date: 06/15/2018 0904

Final Weight/Volume: 50 mL

Prep Date: 06/15/2018 0407

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.067		0.012	0.020



## Analytical Data

Client: PW Grosser Consulting

Job Number: 460-158175-1

**Client Sample ID: SS-057 (0"-3")**

Lab Sample ID: 460-158175-32

Date Sampled: 06/12/2018 1300

Client Matrix: Solid

% Moisture: 15.4

Date Received: 06/12/2018 2100

---

### 7471B Mercury (CVAA)

Analysis Method: 7471B

Analysis Batch: 460-528174

Instrument ID: LEEMAN7

Prep Method: 7471B

Prep Batch: 460-528000

Lab File ID: 528000HG1.CSV

Dilution: 60

Initial Weight/Volume: 0.67 g

Analysis Date: 06/15/2018 1149

Final Weight/Volume: 50 mL

Prep Date: 06/15/2018 0407

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		26.7		0.64	1.1