

NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1703

Lab Number: L1727523

Project Number: GCA1703

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727523-02
Client ID: CP002
Sample Location: 199 MILLS POND RD., ST. JAMES,
Matrix: Soil

Date Collected: 08/08/17 08:50
Date Received: 08/08/17
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	12.5		%	0.100	NA	1	-	08/17/17 09:34	121,2540G	RI



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Project Name: GCA1703

Lab Number: L1727523

Project Number: GCA1703

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727523-03
Client ID: CP003
Sample Location: 199 MILLS POND RD., ST. JAMES,
Matrix: Soil

Date Collected: 08/08/17 09:15
Date Received: 08/08/17
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	39.7		%	0.100	NA	1	-	08/17/17 09:34	121,2540G	RI



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Project Name: GCA1703

Lab Number: L1727523

Project Number: GCA1703

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727523-04
Client ID: CP004
Sample Location: 199 MILLS POND RD., ST. JAMES,
Matrix: Soil

Date Collected: 08/08/17 09:35
Date Received: 08/08/17
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	23.3		%	0.100	NA	1	-	08/17/17 09:34	121,2540G	RI



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RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1703

Lab Number: L1727523

Project Number: GCA1703

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727523-08
Client ID: ST003
Sample Location: 199 MILLS POND RD., ST. JAMES,
Matrix: Soil

Date Collected: 08/08/17 12:00
Date Received: 08/08/17
Field Prep: Not Specified

Table with 11 columns: Parameter, Result, Qualifier, Units, RL, MDL, Dilution Factor, Date Prepared, Date Analyzed, Analytical Method, Analyst. Row 1: General Chemistry - Westborough Lab. Row 2: Solids, Total, 12.0, %, 0.100, NA, 1, -, 08/17/17 09:34, 121,2540G, RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: GCA1703
Project Number: GCA1703

Lab Number: L1727523
Report Date: 08/25/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-04,08 QC Batch ID: WG1032780-1 QC Sample: L1728598-04 Client ID: DUP Sample						
Solids, Total	83.6	84.1	%	1		20



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Lab Number: L1727523 EFC/WFD/NYSCEF: 06/14/2022

Project Number: GCA1703

Report Date: 08/25/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1727523-01A	Vial MeOH preserved	A	NA		4.9	Y	Absent		HOLD-8260HLW(14)
L1727523-01B	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	HOLD-8260HLW(14)
L1727523-01C	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	HOLD-8260HLW(14)
L1727523-01D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		HOLD-WETCHEM()
L1727523-01E	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L1727523-01F	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8270(14)
L1727523-02A	Vial MeOH preserved	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1727523-02B	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	NYTCL-8260HLW(14)
L1727523-02C	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	NYTCL-8260HLW(14)
L1727523-02D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1727523-02E	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727523-02F	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8270(14)
L1727523-03A	Vial MeOH preserved	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1727523-03B	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	NYTCL-8260HLW(14)
L1727523-03C	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	NYTCL-8260HLW(14)
L1727523-03D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1727523-03E	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727523-03F	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14)
L1727523-04A	Vial MeOH preserved	A	NA		4.9	Y	Absent		HOLD-8260HLW(14),NYTCL-8260HLW(14)
L1727523-04B	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	HOLD-8260HLW(14),NYTCL-8260HLW(14)
L1727523-04C	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	HOLD-8260HLW(14),NYTCL-8260HLW(14)



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Project Number: GCA1703

Report Date: 08/25/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1727523-04D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		HOLD-WETCHEM(),TS(7)
L1727523-04E	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		SE-TI(180),HOLD-METAL(180)
L1727523-04F	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),HOLD-8270(14)
L1727523-05A	Vial MeOH preserved	A	NA		4.9	Y	Absent		HOLD-8260HLW(14)
L1727523-05B	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	HOLD-8260HLW(14)
L1727523-05C	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	HOLD-8260HLW(14)
L1727523-05D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		HOLD-WETCHEM()
L1727523-05E	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L1727523-05F	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8270(14)
L1727523-06A	Vial MeOH preserved	A	NA		4.9	Y	Absent		HOLD-8260HLW(14)
L1727523-06B	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	HOLD-8260HLW(14)
L1727523-06C	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	HOLD-8260HLW(14)
L1727523-06D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		HOLD-WETCHEM()
L1727523-06E	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L1727523-06F	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8270(14)
L1727523-07A	Vial MeOH preserved	A	NA		4.9	Y	Absent		HOLD-8260HLW(14)
L1727523-07B	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	HOLD-8260HLW(14)
L1727523-07C	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	HOLD-8260HLW(14)
L1727523-07D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		HOLD-WETCHEM()
L1727523-07E	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L1727523-07F	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8270(14)
L1727523-08A	Vial MeOH preserved	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1727523-08B	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	NYTCL-8260HLW(14)
L1727523-08C	Vial water preserved	A	NA		4.9	Y	Absent	09-AUG-17 06:44	NYTCL-8260HLW(14)
L1727523-08D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1727523-08E	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L1727523-08F	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-8270(14)



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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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers

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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.
- 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

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REFERENCES

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

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.



Alpha Analytical Inc.

RECEIVED NYSCEF ID: 17873
Page 1-1037Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

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Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.EPA 300: DW: BromideEPA 6860: NPW and SCM: PerchlorateEPA 9010: NPW and SCM: Amenable Cyanide DistillationEPA 9012B: NPW: Total CyanideEPA 9050A: NPW: Specific ConductanceSM3500: NPW: Ferrous IronSM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPWEPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

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; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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, SM9221E.

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. EPA 245.1 Hg.

Non-Potable Water


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

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 Westborough, MA 01581 8 Walkup Dr. TEL: 508-698-9270 FAX: 508-898-9193		NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430/ 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 8/9/17		ALPHA Job # L727523		
		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: Project Location: 199 Mills Pond Rd, St. James, NY Project # GCA1703 (Use Project name as Project #) <input checked="" type="checkbox"/>		Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PG #				
Client Information Client: PWGC Address: 630 Schenck Ave Benemia, NY 11716 Phone: 631-589-6353 Fax: Email: thomasr@pwgrosier.com		Project Manager: Tom Melia ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities: Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:						
These samples have been previously analyzed by Alpha <input type="checkbox"/>						ANALYSIS						
Other project specific requirements/comments:						Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)						
Please specify Metals or TAL						SEDHS VOCs SEDHS SVOCs SEDHS Metals						
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix	Sampler's Initials	SEDHS VOCs	SEDHS SVOCs	SEDHS Metals	Sample Specific Comments	T O B I L E
27523-01		S1001		8-8-17 0940		S	JG	*	*	*	*HOLD*	6
02		CP002		0850		↓	↓	↓	↓	↓	*HOLD*	↓
03		CP003		0915		↓	↓	↓	↓	↓	*HOLD*	↓
04		CP004		0935		↓	↓	↓	↓	↓	*HOLD*	↓
05		CP005		0955		↓	↓	↓	↓	↓	*HOLD*	↓
06		CP006		1200		↓	↓	↓	↓	↓	*HOLD*	↓
07		CP007		1220		↓	↓	↓	↓	↓	*HOLD*	↓
08		S1003		1200		↓	↓	↓	↓	↓	*HOLD*	↓
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		O A A O A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)		
Relinquished By:		Date/Time		Received By:		Date/Time		Paul Magella 8/9/17 02:05		Paul Magella 8/9/17 16:10		

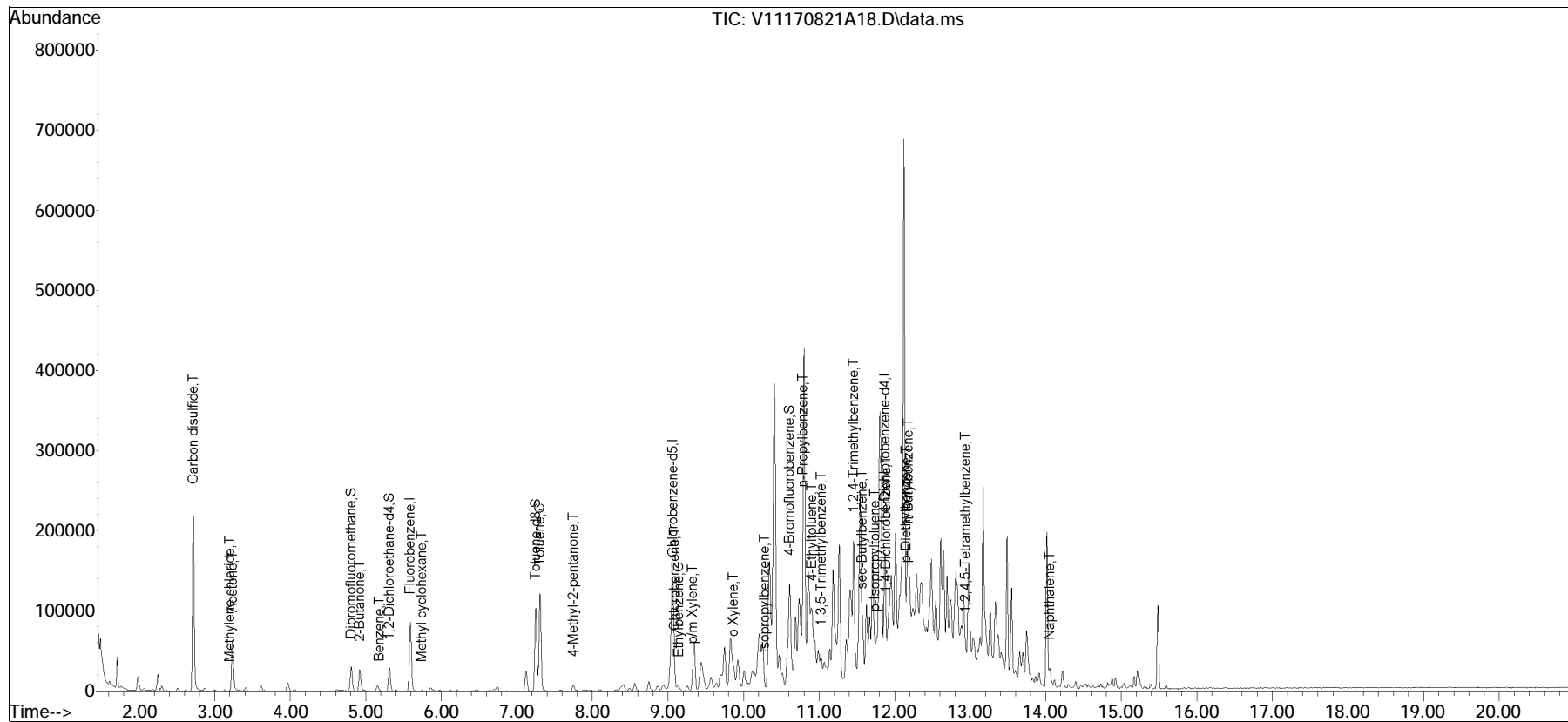
NYSCEF DOC. NO. 48

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2017\170821A\
 Data File : V11170821A18.D
 Acq On : 21 Aug 2017 02:36 pm
 Operator : VOA111:JC
 Sample : 11727523-02,31,3.7,5,,b
 Misc : WG1034101,ICAL13897
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 21 19:15:42 2017
 Quant Method : I:\VOLATILES\VOA111\2017\170821A\V111_170808_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Aug 09 10:09:51 2017
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox1A\V11170821A01.D•



GYRODYNE PROPERTY (INDUSTRIAL AREA)

1 FLOWERFIELD

ST. JAMES, NEW YORK

PHASE II ENVIRONMENTAL SITE ASSESSMENT

PREPARED FOR:

Gyrodyne, LLC
1 Flowerfield
St. James, New York 11780

PREPARED BY:



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SEPTEMBER 2017



**PHASE II ENVIRONMENTAL SITE ASSESSMENT
1 FLOWERFIELD, ST. JAMES, NEW YORK (INDUSTRIAL AREA)**

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1.0 INTRODUCTION

P.W. Grosser Consulting, Inc. (PWGC) has prepared this report to document the findings of our Phase II Environmental Site Assessment (ESA) for the property located at 1 Flowerfield (Industrial Area) in St. James, New York. The scope of work is based upon a PWGC Phase I ESA Report for the site dated June 2017.

1.1 Site Description

The subject property is located at 1 Flowerfield in the Hamlet of St. James, New York. The site is located in the Town of Smithtown and Suffolk County. The property is identified in the Suffolk County Tax Map as:

- 0800-040.00-02.00-004.000
- 0800-040.00-02.00-013.003
- 0800-040.00-02.00-014.000
- 0800-040.00-02.00-015.000

The subject property measures approximately 62.4 acres and is occupied by multiple commercial/industrial buildings, identified as follows:

- Building 1 – Two story building with no basement. Used as office space.
- Building 2 – Single story building with no basement. Used as office and commercial space.
- Building 7 - Single story building (partial second story) with no basement. Used as office and commercial space.
- Building 8 - Single story building with no basement. Used as office and commercial space.
- Bus Depot – Fenced parking lot used for storage of school busses. No permanent structures are present.
- Fairgrounds – Empty fields located on the northern portion of the property. No permanent structures are present. Several portable toilets were present at the Fairgrounds during site reconnaissance.

A Vicinity Map is included as **Figure 1**; a Site Plan is included as **Figure 2**.

1.2 Site Background

PWGC's Phase I ESA identified the following Recognized Environmental Concerns (REC) for the Industrial Area portion of the subject property:

- The site is currently and has historically been used for industrial purposes, including woodworking, auto repair, machine shop, and HVAC, from the 1960s to present. The usages are commonly associated with the storage and use of hazardous substances and petroleum products at the site; usage/storage of such materials was confirmed in several locations during site reconnaissance. The presence of onsite sanitary

systems, floor drains, and storm water drywells associated with the industrial portion of the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past.

- Multiple current and past tenants within the industrial portion of the site are identified as RCRA hazardous waste generators, dating back to at least 1987 based on database records. As such, it can be assumed that hazardous wastes have been generated and stored at the site for at least 30 years. The presence of onsite sanitary systems, floor drains, and storm water drywells associated with the industrial portion of the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past.
- Several chemical storage areas were observed at the site during site reconnaissance. Chemicals identified included waste oil and automotive fluids, paints, stains, solvents, and landscaping and maintenance supplies. The presence of onsite sanitary systems, floor drains, and storm water drywells associated with the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past.
- Multiple floor drains, sanitary systems and storm drains were identified at the site. Floor drains were identified within the Building 7 boiler rooms. Each active building at the site is equipped with at least one onsite sanitary system. Multiple sanitary systems were observed at Building 1 (two systems), and Building 7 (five systems). Multiple storm drains and catch basins were observed throughout the paved portions of the site. Industrial area sanitary systems and storm drains were sampled in 2011. At that time, multiple structures were determined to be impacted, and remediated under the oversight of SCDHS. Remediation was successful and SCDHS issued a No Further Action letter to the site. As the industrial usage of the site, which presumably caused the impact identified in 2011, has continued, it is possible that additional discharges have occurred since remediation was completed.

2.0 FIELD ACTIVITIES

Based on the findings of the Phase I ESA, PWGC recommended a Phase II ESA be performed to further evaluate the specific RECs identified in the Phase I ESA. PWGC's Phase II ESA recommendations consisted of the following:

- Characterization sampling of the Industrial Area sanitary systems and storm drains.

Based on conversations with SCDHS, characterization sampling included primary sanitary structures (e.g., septic tanks and primary cesspools), storm drains remediated in 2011, and additional storm drains identified by field screening.

2.1 Sanitary System and Storm Drain Characterization

2.1.1 Sanitary Systems

Building 1

Building 1 is serviced by two separate sanitary systems (Sanitary System 6 and Sanitary System 14), as follows:

- Sanitary System 6 consists of one primary cesspool (6PLP).
- Sanitary System 14 consists of one solid bottom septic tank (14ST), one primary cesspool (14DBPLP), and five secondary cesspools.

One characterization sample was collected from septic tank 14ST; primary cesspool 14DBPLP was paved over with asphalt and could not be accessed. Cesspool 6PLP was inaccessible for sampling due to the presence of a large concrete cover that could not be moved. It should be noted that structure 6PLP was found to not be impacted during the 2011 remediation event.

Building 2

Building 2 is serviced by one sanitary system (Sanitary System 8) consisting of one septic tank (8ST), one primary cesspool (8PLP), and one secondary cesspool (8SLPA).

One characterization sample was collected from primary cesspool 8PLP. Septic tank ST8 was paved over with asphalt and could not be accessed.

Building 7

Building 7 1 is serviced by five separate sanitary systems (Sanitary System 7, Sanitary System 9, Sanitary System 10, Sanitary System 12, and Sanitary System 13), as follows:

- Sanitary System 7 consists of one septic tank (7ST) and one primary cesspool (7PLP).
- Sanitary System 9 consists of one septic tanks (9ST) one distribution box (9ST1), two primary cesspools (9PLP and 9SLPC), and two secondary cesspools.
- Sanitary System 10 consists of one solid bottom septic tank (10ST), one distribution box (10PLP), two primary cesspools (10SLPA, 10SLPB), and one secondary cesspool (10SLPC).
- Sanitary System 12 consists of one solid bottom septic tank (12ST), one primary cesspool (12PLP1), one secondary cesspool (12PLP), and three tertiary cesspools.
- Sanitary System 13 consists of one septic tank (13ST) and one primary cesspool (13PLP).

Characterization samples were collected from structures 7ST, 7PLP, 9ST, 9PLP, 9SLPC, 10ST, 10SLPA, 12ST, 12PLP1, 12PLP, 13ST, and 13PLP.

Building 8

Building 8 is serviced by one sanitary system (Sanitary System 11) consisting of one septic tank (11ST), one solid bottom structure (11PLP), and one primary cesspool (11SLP).

Characterization samples were collected from septic tank 11ST and primary cesspool 11SLP. Structure 11PLP was determined in the field to be a solid bottom structure, and did not contain enough solid material to allow for a sample to be collected.

Samples were retrieved from the base of each sanitary structure utilizing a stainless-steel hand auger. Prior to sampling and between sampling locations, equipment was decontaminated using a laboratory-grade glassware detergent and tap water scrub to remove contamination, then generously rinsed with tap water and then distilled water. Structure locations are illustrated in **Figure 2**.

2.1.2 Storm Drains

A total of 18 storm water drywells are present at the site. Soil samples were collected from the base of each structure and field screened for evidence of impact such as elevated photo ionization detector (PID) readings, and/or visual or olfactory evidence of impact. Based on conversations with SCDHS, storm drains were sampled as necessary, based on the following criteria:

- Structures where impact was present during the 2011 remediation event.
- Structures where evidence of impact was identified based on field screening.

Based on these criteria, storm drain samples were collected for analysis from structures SD10 and SD13 (impacted during 2011 remediation event), SD14 (elevated PID, petroleum sheen), and SD17 (petroleum odor).

Additionally, during sample collection, storm drain SD10 was determined to be the discharge point for a utility sink located within the bus company mechanic shop in Building 8.

Samples were retrieved from the base of each storm drain utilizing a stainless-steel hand auger. Prior to sampling and between sampling locations, equipment was decontaminated using a laboratory-grade glassware detergent and tap water scrub to remove contamination, then generously rinsed with tap water and then distilled water. Structure locations are illustrated in **Figure 2**.

2.1.3 Laboratory Analysis

A total of 17 sanitary system samples, and four storm drain samples were submitted for laboratory analysis. Samples were contained in pre-cleaned, laboratory-supplied glassware, stored in a cooler with ice, and submitted to Alpha Analytical of Westborough, Massachusetts (Alpha), a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) certified analytical laboratory (ELAP ID: 11148). UIC samples were analyzed for the following in accordance with SCDHS SOP 9-95:

- VOCs by USEPA Method 8260 (SCDHS List)
- SVOCs by USEPA Method 8270 (SCDHS List)
- Metals by USEPA Method 6010/7471 (SCDHS List)

3.0 ANALYTICAL RESULTS

Sanitary system and storm drain sample analytical data were compared to the SCDHS Action Levels specified in SCDHS Article 12 - SOP 9-95, *Pumpout and Soil Cleanup Criteria* (August 2010). Analytical data are summarized in **Table 1** through **Table 3**. A copy of the laboratory analytical report is included as **Appendix C**.

3.1 Sanitary Systems

VOCs were detected at concentrations exceeding their respective SCDHS Action Levels in a total of 13 of 17 structures sampled (7ST, 9ST, 9PLP, 9SLPC, 10ST, 11ST, 11SLP, 12ST, 12PLP1, 12PLP, 13ST, 13PLP, 14ST). Toluene was the primary VOC detected in most of the structures; additional petroleum compounds were detected in many of the structures as well. Chlorinated VOCs (CVOCs), such as tetrachloroethene (PCE) or trichloroethene (TCE), were not detected in samples collected from the site.

SVOCs were detected at concentrations exceeding their respective SCDHS Action Levels in one of 17 structures sampled (11SLP).

Metals were detected at concentrations exceeding their respective SCDHS Action Levels in four of 17 structures sampled (7ST, 11ST, 12ST, 12PLP1). Metals detected included mercury, chromium, and silver.

Based on impact detected above SCDHS Action Levels, sanitary structures 7ST, 9ST, 9PLP, 9SLPC, 10ST, 11ST, 11SLP, 12ST, 12PLP1, 12PLP, 13ST, 13PLP, and 14ST will require remediation in accordance with SCDHS procedures.

3.2 Storm Drains

SVOCs were detected at concentrations exceeding their respective SCDHS Action Levels in two of four storm drain samples collected from the site (SD13, SD17). The compounds detected are associated with typical parking lot runoff.

VOCs and metals were not detected at concentrations exceeding their respective SCDHS Action Levels in storm drain samples collected from the site.

4.0 CONCLUSIONS AND RECOMMENDATIONS

PWGC has prepared this Report to document the findings of our Phase II ESA for the Industrial Area portion of the property located at 1 Flowerfield in St. James, New York. The Phase II ESA consisted of the following tasks:

- Characterization sampling of the Industrial Area sanitary systems and storm drains.

4.1 Conclusions

Based on the results of the Phase II ESA, PWGC offers the following conclusions:

- A total of 17 soil samples were collected from sanitary structures within the Industrial Area.
- Of the 17 sanitary structures sampled, 13 contained VOC, SVOC, or metals impact in excess of SCDHS Action Levels.
- A total of four soil samples were collected from onsite storm water drains.
- Of the four storm drains sampled, two contained SVOC impact in excess of SCDHS Action Levels.
- Based on analytical results a total of 15 sanitary structures and storm drains will require remediation in accordance with SCDHS procedures. As part of remediation, SCDHS will likely require that characterization samples be collected from cesspools 14DBPLP, 9SLPB, 10SLPB, 12SLPA, and 12SLPC, which are directly connected to impacted structures.

4.2 Recommendations

Based on the conclusions detailed above, PWGC offers the following recommendations for the subject property:

- Impacted on-site sanitary systems within the Industrial Area should be remediated in accordance with SCDHS SOP 9-95. This should include:
 - Submission of a copy of this Phase II ESA to SCDHS for review along with required SCDHS review and oversight fees. SCDHS will issue a letter detailing their remedial requirements for the site. SCDHS may have additional requirements for the site, including characterization sampling of additional cesspools and/or additional parking lot storm drains.
 - A qualified environmental remediation contractor should remove impacted sediment from within each impacted structure until clean endpoint samples can be obtained. It will be necessary to remove any liquids present prior to removing impacted sediments. It may be necessary to utilize a backhoe (or similar) to make structures not finished to grade (if present) accessible for characterization and/or cleanout.
 - Once structures are remediated and acceptable endpoint samples are obtained, a Remediation Report should be submitted to SCDHS for review. Assuming their requirements are met, SCDHS will issue a No Further Action letter for the site.



FIGURES



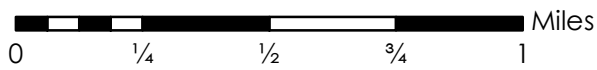
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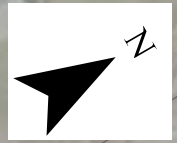
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SUBJECT SITE VICINITY

1 FLOWERFIELD
ST JAMES, NT



Project:	GCA1703
Date:	9/1/2017
Designed by:	JCG
Drawn by:	JCG
Approved by:	TM
Figure No:	1

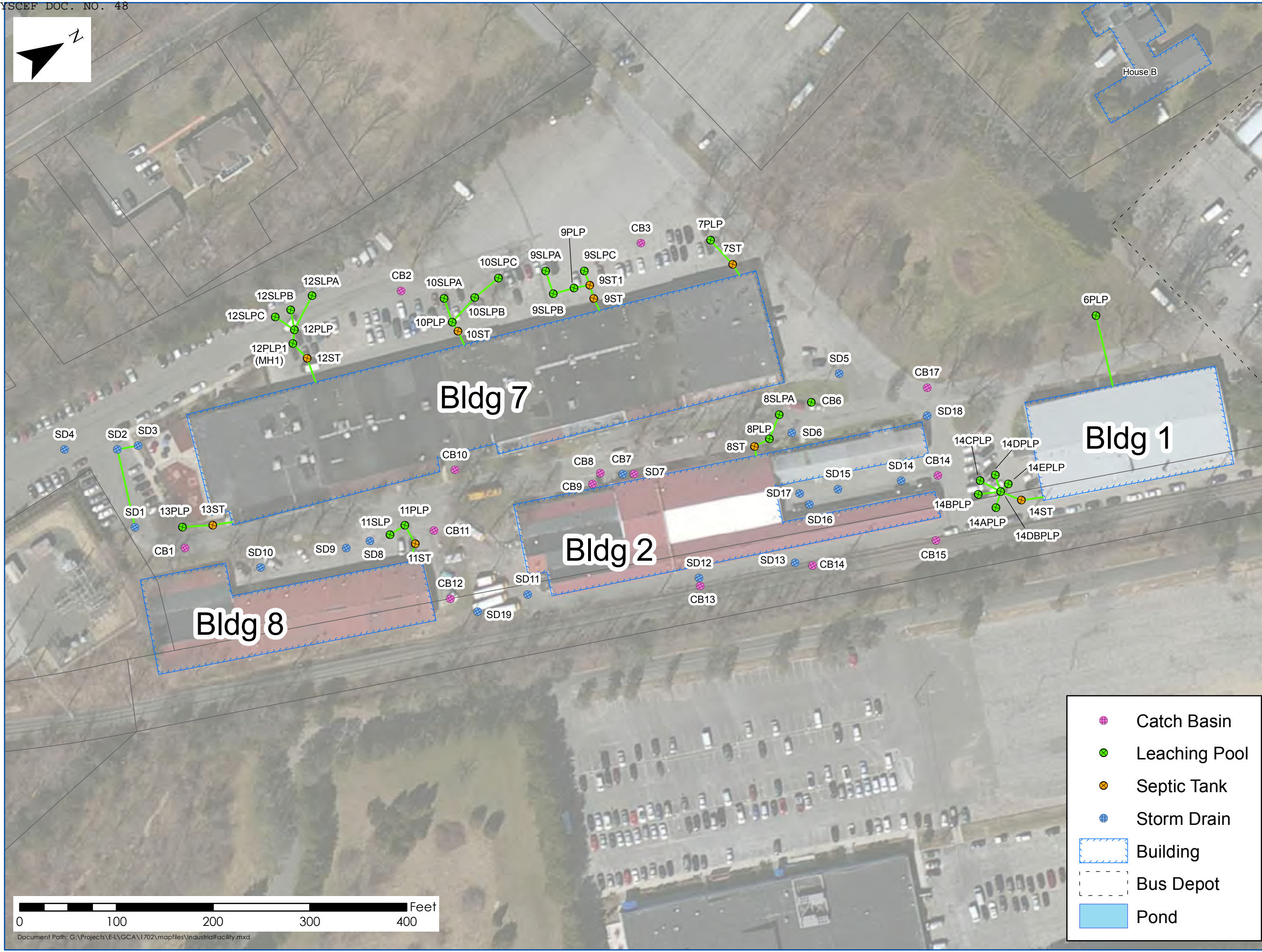


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REVISION	DATE	INITIAL	COMMENTS

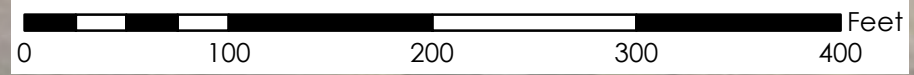
DRAWING INFORMATION:

Project:	GCA1701	Designed by:	TM
Date:	9/7/2017	Drawn by:	JCG
Scale:	AS SHOWN	Approved by:	TM

- Catch Basin
- Leaching Pool
- Septic Tank
- Storm Drain
- Building
- Bus Depot
- Pond

SITE PLAN
FLOWERFIELD INDUSTRIAL
ST JAMES, NY

FIGURE NO:
2





TABLES

Table 1

Soil Sample Analytical Results - Volatile Organic Compounds
Gyrodyne Property (Industrial Area)
St. James, New York

Table with columns: CLIENT SAMPLE ID, CAS Number, SCDHS Action Level, SCDHS Cleanup Objective, 14ST (8/9/2017), 8PLP (8/9/2017), 11ST (8/9/2017), 11SLP (8/9/2017), 7ST (8/10/2017), 7PLP (8/10/2017), 9ST (8/10/2017), 9SLPC (8/10/2017), 9PLP (8/10/2017), 10ST (8/10/2017), 10SLPA (8/10/2017), 12PLP1 (8/10/2017), 12PLP (8/10/2017). Rows list various compounds like Tetrachloroethane, Trichloroethane, etc., with their respective concentrations and units across the sampling dates.

Notes:
All concentrations are ug/kg (ppb)
(1) Action Levels & Cleanup Objectives, SCDHS Article 12 - SOP 9-95, August 2010.
** - Standard is determined on a case by case basis
Highlighted text denotes concentrations exceeding SCDHS Action Levels.
NS - No Standard
U - Indicates that the analyte was not detected above the laboratory MDL
J - Estimated value

Table 1

Soil Sample Analytical Results - Volatile Organic Compounds
Gyrodyne Property (Industrial Area)
St. James, New York

CLIENT SAMPLE ID: LABORATORY ID: SAMPLING DATE	CAS Number	SCDHS Action Level	SCDHS Cleanup Objective	12SLPB 8/14/2017 L1728412-02	12ST 8/10/2017 L1727982-14	13ST 8/10/2017 L1727982-18	13PLP 8/10/2017 L1727982-19	SD13 8/11/2017 L1728146-02	SD17 8/11/2017 L1728146-03	SD14 8/11/2017 L1728146-05	SD10 8/14/2017 L1728412-01
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	630-20-6	600	300	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
1,1,1-Trichloroethane	71-55-6	1,400	700	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
1,1,2,2-Tetrachloroethane	79-34-5	800	400	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
1,1,2-Trichloroethane	79-00-5	200	100	150 U	360 U	820 U	420 U	7.4 U	2.5 U	130 U	2.8 U
1,1-Dichloroethane	75-34-3	600	300	150 U	360 U	820 U	420 U	7.4 U	2.5 U	130 U	2.8 U
1,1-Dichloroethene	75-35-4	600	300	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
1,1-Dichloropropene	563-58-6	200	100	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
1,2,3-Trichlorobenzene	87-61-6	17,000	8,300	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
1,2,3-Trichloropropane	96-18-4	100	50	990 U	2,400 U	5,500 U	2,800 U	50 U	17 U	870 U	18 U
1,2,4,5-Tetramethylbenzene	95-93-2	18,000	8,800	40 J	190 J	2,200 U	1,100 U	20 U	0.3 J	34 J	7.4 U
1,2,4-Trichlorobenzene	120-82-1	17,000	8,300	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
1,2,4-Trimethylbenzene	95-63-6	7,200	3,600	96 J	1,100 J	2,700 U	1,400 U	1.7 J	1.0 J	41 J	9.3 U
1,2-Dibromo-3-chloropropane	96-12-8	100	50	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
1,2-Dibromoethane	106-93-4	600	300	400 U	960 U	2,200 U	1,100 U	20 U	6.6 U	350 U	7.4 U
1,2-Dichlorobenzene	95-50-1	2,200	1,100	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
1,2-Dichloroethane	107-06-2	100	50	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
1,2-Dichloropropane	78-87-5	100	50	350 U	840 U	1,900 U	990 U	17 U	5.8 U	300 U	6.5 U
1,3,5-Trimethylbenzene	108-67-8	16,800	8,400	49 J	350 J	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
1,3-Dichlorobenzene	541-73-1	4,800	2,400	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
1,3-Dichloropropane	142-28-9	600	300	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
1,4-Dichlorobenzene	106-46-7	3,600	1,800	150 J	700 J	2,700 U	160 J	25 U	8.3 U	440 U	9.3 U
2,2-Dichloropropane	594-20-7	600	300	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
2-Butanone	78-93-3	400	200	990 U	1,200 J	4,000 J	2,800 U	120	7.9 J	870 U	18 U
4-Methyl-2-pentanone	108-10-1	1,400	700	990 U	2,400 U	5,500 U	2,800 U	50 U	17 U	870 U	18 U
Acetone	67-64-1	**	**	990 U	2,900	9,700	3,800	300	98	870 U	39
Benzene	71-43-2	120	60	99 U	510	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Bromobenzene	108-86-1	2,800	1,400	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
Bromochloromethane	74-97-5	400	200	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
Bromodichloromethane	75-27-4	4,600	2,300	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Bromoform	75-25-2	13,000	6,300	400 U	960 U	2,200 U	1,100 U	20 U	6.6 U	350 U	7.4 U
Carbon tetrachloride	56-23-5	1,600	800	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Chlorobenzene	108-90-7	2,200	1,100	99 U	9,800	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Chloroethane	75-00-3	400	200	200 U	480 U	1,100 U	560 U	9.9 U	3.3 U	170 U	3.7 U
Chloroform	67-66-3	800	400	150 U	360 U	820 U	420 U	7.4 U	2.5 U	130 U	2.8 U
cis-1,2-Dichloroethene	156-59-2	500	250	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
cis-1,3-Dichloropropene	10061-01-5	100	50	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Dibromochloromethane	124-48-1	6,200	3,100	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Dibromomethane	74-95-3	400	200	990 U	2,400 U	5,500 U	2,800 U	50 U	17 U	870 U	18 U
Dichlorodifluoromethane	75-71-8	600	300	990 U	2,400 U	5,500 U	2,800 U	50 U	17 U	870 U	18 U
Ethylbenzene	100-41-4	2,000	1,000	99 U	120 J	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Freon-113	76-13-1	12,000	6,000	2,000 U	4,800 U	11,000 U	5,600 U	99 U	33 U	1,700 U	37.0 U
Hexachlorobutadiene	87-68-3	54,000	27,000	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
Isopropylbenzene	98-82-8	9,400	4,700	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Methyl tert butyl ether	1634-04-4	200	100	200 U	480 U	1,100 U	560 U	9.9 U	3.3 U	170 U	3.7 U
Methylene chloride	75-09-2	100	50	990 U	2,400 U	5,500 U	2,800 U	50 U	17 U	870 U	18 U
n-Butylbenzene	104-51-8	12,000	5,900	99 U	240	550 U	280 U	5 U	1.7 U	87 U	1.8 U
n-Propylbenzene	103-65-1	8,000	4,000	99 U	150 J	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Naphthalene	91-20-3	24,000	12,000	79 J	1,200	2,700 U	1,400 U	1 J	1.0 J	440 U	9.3 U
o-Chlorotoluene	95-49-8	5,200	2,600	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
o-Xylene	95-47-6	NS	1,600	60 J	480 U	1,100 U	560 U	9.9 U	3.3 U	170 U	3.7 U
p-Chlorotoluene	106-43-4	5,200	2,600	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
p-Diethylbenzene	105-05-5	52,000	26,000	400 U	960 U	2,200 U	1,100 U	20 U	6.6 U	350 U	7.4 U
p-Ethyltoluene	622-96-8	9,000	4,500	34 J	530 J	2,200 U	1,100 U	20 U	0.7 J	25 J	7.4 U
p-Isopropyltoluene	99-87-6	22,000	11,000	290	570	2,500	600	21	1.7 U	940	1.8 U
p/m-Xylene	179601-23-1	NS	1,600	71 J	130 J	1,100 U	560 U	9.9 U	3.3 U	170 U	3.7 U
sec-Butylbenzene	135-98-8	12,000	5,900	99 U	160 J	550 U	280 U	5.0 U	1.7 U	87 U	1.8 U
Styrene	100-42-5	9,200	4,600	200 U	480 U	1,100 U	560 U	9.9 U	3.3 U	170 U	3.7 U
tert-Butylbenzene	98-06-6	12,000	5,900	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
Tetrachloroethene	127-18-4	2,600	1,300	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Toluene	108-88-3	3,000	1,500	990	11,000	59,000	32,000	12	0.9 J	56 J	2.1 J
trans-1,2-Dichloroethene	156-60-5	400	200	150 U	360 U	820 U	420 U	7.4 U	2.5 U	130 U	2.8 U
trans-1,3-Dichloropropene	10061-02-6	100	50	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Trichloroethene	79-01-6	1,000	500	99 U	240 U	550 U	280 U	5 U	1.7 U	87 U	1.8 U
Trichlorofluoromethane	75-69-4	1,600	800	500 U	1,200 U	2,700 U	1,400 U	25 U	8.3 U	440 U	9.3 U
Vinyl chloride	75-01-4	100	50	200 U	480 U	1,100 U	560 U	9.9 U	3.3 U	170 U	3.7 U

Notes:
All concentrations are ug/kg (ppb)
(1) Action Levels & Cleanup Objectives, SCDHS Article 12 - SOP 9-95, August 2010.
** - Standard is determined on a case by case basis
Highlighted text denotes concentrations exceeding SCDHS Action Levels.
NS - No Standard
U - Indicates that the analyte was not detected above the laboratory MDL
J - Estimated value

Table 2

Soil Sample Analytical Results - Semi-Volatile Organic Compounds
Gyrodyne Property (Industrial Area)
St. James, New York

CLIENT SAMPLE ID:	CAS Number	SCDHS Action	SCDHS Cleanup Objective	14ST 8/9/2017	8PLP 8/9/2017	11ST 8/9/2017	11SLP 8/9/2017	7ST 8/10/2017	7PLP 8/10/2017	9ST 8/10/2017	9SLPC 8/10/2017	9PLP 8/10/2017	10ST 8/10/2017	10SLPA 8/10/2017
SAMPLING DATE	Level	Objective	L1727764-01	L1727764-06	L1727764-08	L1727764-09	L1727982-01	L1727982-02	L1727982-03	L1727982-04	L1727982-05	L1727982-08	L1727982-09	
Semi-Volatile Organic Compounds														
Acenaphthene	83-32-9	200,000	98,000	7,700 U	310 U	460 U	1,500	630 U	160 U	1,100 U	540 U	13,000 U	1,400 U	170 U
Anthracene	120-12-7	200,000	100,000	5,800 U	230 U	340 U	2,900	480 U	120 U	840 U	400 U	9,700 U	1,000 U	130 U
Benzo(a)anthracene	56-55-3	2,000	1,000	5,800 U	150 J	150 J	13,000	110 J	120 U	840 U	400 U	9,700 U	1,000 U	36 J
Benzo(a)pyrene	50-32-8	44,000	22,000	7,700 U	170 J	150 J	14,000	630 U	160 U	1,100 U	540 U	13,000 U	1,400 U	170 U
Benzo(b)fluoranthene	205-99-2	3,400	1,700	5,800 U	280	200 J	14,000	130 J	120 U	840 U	400 U	9,700 U	1,000 U	60 J
Benzo(ghi)perylene	191-24-2	200,000	100,000	7,700 U	150 J	460 U	7,600	630 U	160 U	1,100 U	540 U	13,000 U	1,400 U	26 J
Benzo(k)fluoranthene	207-08-9	3,400	1,700	5,800 U	110 J	340 U	4,900	480 U	120 U	840 U	400 U	9,700 U	1,000 U	130 U
Chrysene	218-01-9	2,000	1,000	5,800 U	200 J	170 J	13,000	96 J	120 U	840 U	400 U	9,700 U	1,000 U	41 J
Dibenzo(a,h)anthracene	53-70-3	200,000	100,000	5,800 U	230 U	340 U	2,400	480 U	120 U	840 U	400 U	9,700 U	1,000 U	130 U
Fluoranthene	206-44-0	200,000	100,000	5,800 U	350	350	16,000	210 J	120 U	840 U	79 J	9,700 U	1,000 U	74 J
Fluorene	86-73-7	200,000	100,000	9,600 U	380 U	68 J	1,300	790 U	200 U	1,400 U	670 U	16,000 U	1,800 U	210 U
Indeno(1,2,3-cd)pyrene	193-39-5	16,000	8,000	7,700 U	180 J	460 U	8,000	630 U	160 U	240 J	200 J	13,000 U	1,400 U	58 J
Phenanthrene	85-01-8	200,000	100,000	5,800 U	170 J	330 J	11,000	140 J	120 U	840 U	400 U	9,700 U	1,000 U	49 J
Pyrene	129-00-0	200,000	100,000	5,800 U	280	290 J	16,000	170 J	120 U	840 U	400 U	9,700 U	1,000 U	56 J

CLIENT SAMPLE ID:	CAS Number	SCDHS Action	SCDHS Cleanup Objective	12PLP1 8/10/2017	12PLP 8/10/2017	12SLPB 8/14/2017	12ST 8/10/2017	13ST 8/10/2017	13PLP 8/10/2017	SD13 8/11/2017	SD17 8/11/2017	SD14 8/11/2017	SD10 8/14/2017
SAMPLING DATE	Level	Objective	L1727982-12	L1727982-13	L1728412-02	L1727982-14	L1727982-18	L1727982-19	L1728146-02	L1728146-03	L1728146-05	L1728412-01	
Semi-Volatile Organic Compounds													
Acenaphthene	83-32-9	200,000	98,000	420 U	96,000 U	170 U	290 J	79,000 U	120,000 U	350 U	120 J	200 U	220 U
Anthracene	120-12-7	200,000	100,000	200 J	72,000 U	120 U	120 J	59,000 U	92,000 U	240 J	320	130 J	170 U
Benzo(a)anthracene	56-55-3	2,000	1,000	340	72,000 U	58 J	290 J	59,000 U	92,000 U	1,500	2,700	900	240
Benzo(a)pyrene	50-32-8	44,000	22,000	210 J	96,000 U	66 J	270 J	79,000 U	120,000 U	2,000	2,800	1,000	230
Benzo(b)fluoranthene	205-99-2	3,400	1,700	340	72,000 U	120	360	59,000 U	92,000 U	4,100	5,700	2,000	360
Benzo(ghi)perylene	191-24-2	200,000	100,000	170 J	96,000 U	58 J	160 J	79,000 U	120,000 U	1,800	3,000	900	160 J
Benzo(k)fluoranthene	207-08-9	3,400	1,700	100 J	72,000 U	120 U	130 J	59,000 U	92,000 U	950	1,400	620	95 J
Chrysene	218-01-9	2,000	1,000	350	72,000 U	87 J	250 J	59,000 U	92,000 U	2,700	4,200	1,400	280
Dibenzo(a,h)anthracene	53-70-3	200,000	100,000	150 J	72,000 U	120 U	310 U	59,000 U	92,000 U	370	720	220	40 J
Fluoranthene	206-44-0	200,000	100,000	930	72,000 U	130	610	59,000 U	92,000 U	4,100	7,900	2,800	430
Fluorene	86-73-7	200,000	100,000	320 J	120,000 U	210 U	200 J	98,000 U	150,000 U	440 U	140 J	54 J	280 U
Indeno(1,2,3-cd)pyrene	193-39-5	16,000	8,000	580	96,000 U	58 J	230 J	79,000 U	120,000 U	1,800	3,200	1,000	170 J
Phenanthrene	85-01-8	200,000	100,000	1,100	72,000 U	52 J	460	59,000 U	92,000 U	1,100	3,300	960	180
Pyrene	129-00-0	200,000	100,000	880	72,000 U	130	470	59,000 U	92,000 U	3,500	6,300	2,200	370

Notes:
 All concentrations are ug/kg (ppb)
 (1) Action Levels & Cleanup Objectives, SCDHS Article 12 - SOP 9-95, August 2010.
 ** - Standard is determined on a case by case basis
 Highlighted text denotes concentrations exceeding SCDHS Action Levels.
 NS - No Standard
 U - Indicates that the analyte was not detected above the laboratory MDL
 J - Estimated value

Table 3

Soil Sample Analytical Results - Total Metals
 Gyrodyne Property (Industrial Area)
 St. James, New York

CLIENT SAMPLE ID:	CAS Number	SCDHS Action Level	SCDHS Cleanup Objective	14ST 8/9/2017 L1727764-01	8PLP 8/9/2017 L1727764-06	11ST 8/9/2017 L1727764-08	11SLP 8/9/2017 L1727764-09	7ST 8/10/2017 L1727982-01	7PLP 8/10/2017 L1727982-02	9ST 8/10/2017 L1727982-03	9SLPC 8/10/2017 L1727982-04	9PLP 8/10/2017 L1727982-05	10ST 8/10/2017 L1727982-08	10SLPA 8/10/2017 L1727982-09
Total Metals														
Arsenic, Total	7440-38-2	30	6	0.771 J	2.13	5.96	3.61	3.66	1.17	2.43 J	2.19	2.65	1.35 J	0.682
Barium, Total	7440-39-3	4,000	820	57	26.8	136	198	61.2	15.5	73.7	27	33.8	17.9	23.1
Beryllium, Total	7440-41-7	240	47	0.045 J	0.098 J	0.096 J	0.147 J	0.113 J	0.414	1.62 U	0.804 U	0.122 J	2.04 U	0.079 J
Cadmium, Total	7440-43-9	40	8	1.63	0.677 J	12.7	5.5	9.37	0.476 U	1.55 J	2.04	3.98	1.02 J	0.115 J
Chromium, Total	7440-47-3	100	20	16	15	57.8	52.4	57	12	24.8	23.8	19.2	10.7	6.37
Copper, Total	7440-50-8	8,500	1,700	249	125	311	813	457	16.6	641	728	276	282	28.5
Lead, Total	7439-92-1	2,000	450	23.6	68	153	138	188	5.94	54.3	48.6	48.7	60.7	9.15
Mercury, Total	7439-97-6	3.7	0.7	0.31	0.2	3.8	1.9	7.1	0.02 J	0.56	1	0.49	1	0.06 J
Nickel, Total	7440-02-0	650	130	7.68	8.69	41.8	29	32.8	10.6	27.5	19.7	11.8	12.5	5.4
Selenium, Total	7782-49-2	NS	NS	2.17 J	1.35 J	2.34 J	5.56	21.7	0.953 U	8.93	8.08	1.97	3.27 J	0.325 J
Silver, Total	7440-22-4	50	10	9.04	0.428 J	24.4	10.2	308	0.681	10.2	8.78	19.9	1.72 J	0.525 U

CLIENT SAMPLE ID:	CAS Number	SCDHS Action Level	SCDHS Cleanup Objective	12PLP1 8/10/2017 L1727982-12	12PLP 8/10/2017 L1727982-13	12SLPB 8/14/2017 L1728412-02	12ST 8/10/2017 L1727982-14	13ST 8/10/2017 L1727982-18	13PLP 8/10/2017 L1727982-19	SD13 8/11/2017 L1728146-02	SD17 8/11/2017 L1728146-03	SD14 8/11/2017 L1728146-05	SD10 8/14/2017 L1728412-01
Total Metals													
Arsenic, Total	7440-38-2	30	6	8.66	1.14 J	2.88	6.26	1.26 J	2.44	2.02	1.55	1.66	1.72
Barium, Total	7440-39-3	4,000	820	58.5	46	55.6	80.8	113	77.4	39.6	17.2	31.2	15.8
Beryllium, Total	7440-41-7	240	47	0.623 U	0.124 J	0.109 J	0.06 J	1.16 U	0.074 J	0.323 J	0.083 J	0.192 J	0.047 J
Cadmium, Total	7440-43-9	40	8	21.1	1.43 J	2.14	1.19 U	0.559 J	1.24 U	1.17	0.383 J	0.522 J	0.563 J
Chromium, Total	7440-47-3	100	20	190	28	55	1,480	14.2	35.1	22.6	6.83	10.7	13.8
Copper, Total	7440-50-8	8,500	1,700	1,050	298	54.6	388	312	184	104	27.2	19.8	31.6
Lead, Total	7439-92-1	2,000	450	1,930	30.1	32.4	223	10.8 J	13.1	53.2	15.9	26.2	17.4
Mercury, Total	7439-97-6	3.7	0.7	4.7	0.22 J	0.03 J	0.54	0.27 J	0.26	0.08 J	0.02 J	0.1 U	0.04 J
Nickel, Total	7440-02-0	650	130	30	11.6	17.3	54.6	8.66	9.95	15	3.97	7.26	4.32
Selenium, Total	7782-49-2	NS	NS	4.86	3.37 J	0.262 J	3.18	3.86 J	9.08	0.414 J	0.981 U	1.16 U	0.65 J
Silver, Total	7440-22-4	50	10	4.56	2.09	4.34	0.726 J	0.885 J	0.594 J	1.01 U	0.49 U	0.58 U	0.67 U

Notes:
 All concentrations are mg/kg (ppm)
 (1) Action Levels & Cleanup Objectives, SCDHS Article 12 - SOP 9-95, August 2010.
 ** - Standard is determined on a case by case basis
 Highlighted text denotes concentrations exceeding SCDHS Action Levels.
 NS - No Standard
 U - Indicates that the analyte was not detected above the laboratory MDL
 J - Estimated value



APPENDIX A

LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

Lab Number: L1727764
Client: P. W. Grosser
630 Johnson Avenue
Suite 7
Bohemia, NY 11716
ATTN: Thomas Melia
Phone: (631) 589-6353
Project Name: GCA1702
Project Number: GCA1702
Report Date: 08/24/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727764

Page L1059

Project Number: GCA1702

Report Date: 08/24/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1727764-01	14ST	SOIL	ST. JAMES, NY	08/09/17 09:05	08/09/17
L1727764-02	14EPLP	SOIL	ST. JAMES, NY	08/09/17 09:50	08/09/17
L1727764-03	14APLP	SOIL	ST. JAMES, NY	08/09/17 10:15	08/09/17
L1727764-04	14BPLP	SOIL	ST. JAMES, NY	08/09/17 10:35	08/09/17
L1727764-05	14CPLP	SOIL	ST. JAMES, NY	08/09/17 10:50	08/09/17
L1727764-06	8PLP	SOIL	ST. JAMES, NY	08/09/17 11:50	08/09/17
L1727764-07	8SLPA	SOIL	ST. JAMES, NY	08/09/17 12:05	08/09/17
L1727764-08	11 ST	SOIL	ST. JAMES, NY	08/09/17 12:30	08/09/17
L1727764-09	11 SLP	SOIL	ST. JAMES, NY	08/09/17 13:10	08/09/17



Project Name: GCA1702

Lab Number: L1060
L1727764

Project Number: GCA1702

Report Date: 08/24/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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: GCA1702

Lab Number: Page L1061
L1727764

Project Number: GCA1702

Report Date: 08/24/17

Case Narrative (continued)

Report Submission

August 24, 2017: This final report includes the results of all requested analyses.

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

Semivolatile Organics

L1727764-01: The sample has elevated detection limits due to the dilution required by the sample matrix.

L1727764-01: The surrogate recoveries are below the acceptance criteria for nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

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:

 Lisa Westerlind

Title: Technical Director/Representative

Date: 08/24/17



ORGANICS



VOLATILES



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: 1727764 RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-01
 Client ID: 14ST
 Sample Location: ST. JAMES, NY

Date Collected: 08/09/17 09:05
 Date Received: 08/09/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/15/17 13:06
 Analyst: JC
 Percent Solids: 34%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	2700	450	1
1,1-Dichloroethane	ND		ug/kg	410	74.	1
Chloroform	ND		ug/kg	410	100	1
Carbon tetrachloride	ND		ug/kg	270	95.	1
1,2-Dichloropropane	ND		ug/kg	960	62.	1
Dibromochloromethane	ND		ug/kg	270	48.	1
1,1,2-Trichloroethane	ND		ug/kg	410	86.	1
Tetrachloroethene	ND		ug/kg	270	83.	1
Chlorobenzene	ND		ug/kg	270	96.	1
Trichlorofluoromethane	ND		ug/kg	1400	110	1
1,2-Dichloroethane	ND		ug/kg	270	68.	1
1,1,1-Trichloroethane	ND		ug/kg	270	96.	1
Bromodichloromethane	ND		ug/kg	270	84.	1
trans-1,3-Dichloropropene	ND		ug/kg	270	57.	1
cis-1,3-Dichloropropene	ND		ug/kg	270	63.	1
1,1-Dichloropropene	ND		ug/kg	1400	90.	1
Bromoform	ND		ug/kg	1100	65.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	270	82.	1
Benzene	ND		ug/kg	270	53.	1
Toluene	24000		ug/kg	410	54.	1
Ethylbenzene	55	J	ug/kg	270	47.	1
Vinyl chloride	ND		ug/kg	550	86.	1
Chloroethane	ND		ug/kg	550	87.	1
1,1-Dichloroethene	ND		ug/kg	270	100	1
trans-1,2-Dichloroethene	ND		ug/kg	410	66.	1
Trichloroethene	ND		ug/kg	270	83.	1
1,2-Dichlorobenzene	ND		ug/kg	1400	50.	1
1,3-Dichlorobenzene	ND		ug/kg	1400	60.	1
1,4-Dichlorobenzene	140	J	ug/kg	1400	50.	1
Methyl tert butyl ether	ND		ug/kg	550	42.	1

NYSCEF DOC NO. 48 Project Name: GCA1702

RECEIVED NYSCEF: 06/14/2022 Lab Number: Page 12/1065

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-01
 Client ID: 14ST
 Sample Location: ST. JAMES, NY

Date Collected: 08/09/17 09:05
 Date Received: 08/09/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	550	96.	1
o-Xylene	ND		ug/kg	550	93.	1
cis-1,2-Dichloroethene	ND		ug/kg	270	94.	1
Dibromomethane	ND		ug/kg	2700	66.	1
Styrene	ND		ug/kg	550	110	1
Dichlorodifluoromethane	ND		ug/kg	2700	140	1
Acetone	3000		ug/kg	2700	630	1
2-Butanone	ND		ug/kg	2700	190	1
4-Methyl-2-pentanone	ND		ug/kg	2700	67.	1
1,2,3-Trichloropropane	ND		ug/kg	2700	48.	1
Bromochloromethane	ND		ug/kg	1400	98.	1
2,2-Dichloropropane	ND		ug/kg	1400	120	1
1,2-Dibromoethane	ND		ug/kg	1100	55.	1
1,3-Dichloropropane	ND		ug/kg	1400	50.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	270	87.	1
Bromobenzene	ND		ug/kg	1400	60.	1
n-Butylbenzene	ND		ug/kg	270	62.	1
sec-Butylbenzene	ND		ug/kg	270	60.	1
tert-Butylbenzene	ND		ug/kg	1400	68.	1
o-Chlorotoluene	ND		ug/kg	1400	61.	1
p-Chlorotoluene	ND		ug/kg	1400	50.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1400	110	1
Hexachlorobutadiene	ND		ug/kg	1400	96.	1
Isopropylbenzene	ND		ug/kg	270	53.	1
p-Isopropyltoluene	790		ug/kg	270	55.	1
Naphthalene	ND		ug/kg	1400	38.	1
n-Propylbenzene	ND		ug/kg	270	59.	1
1,2,3-Trichlorobenzene	ND		ug/kg	1400	69.	1
1,2,4-Trichlorobenzene	ND		ug/kg	1400	59.	1
1,3,5-Trimethylbenzene	ND		ug/kg	1400	44.	1
1,2,4-Trimethylbenzene	ND		ug/kg	1400	51.	1
Freon-113	ND		ug/kg	5500	140	1
p-Diethylbenzene	ND		ug/kg	1100	1100	1
p-Ethyltoluene	ND		ug/kg	1100	64.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1100	43.	1



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF: 06/14/2022 Page 1 of 1066

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-01
Client ID: 14ST
Sample Location: ST. JAMES, NY

Date Collected: 08/09/17 09:05
Date Received: 08/09/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	86		70-130



Project Name: 48 GCA1702

Lab Number: 127764

RECEIVED NYS OFFICE 06/14/2022

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-06
 Client ID: 8PLP
 Sample Location: ST. JAMES, NY

Date Collected: 08/09/17 11:50
 Date Received: 08/09/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/15/17 13:33
 Analyst: JC
 Percent Solids: 43%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1600	270	1
1,1-Dichloroethane	ND		ug/kg	240	44.	1
Chloroform	ND		ug/kg	240	60.	1
Carbon tetrachloride	ND		ug/kg	160	56.	1
1,2-Dichloropropane	ND		ug/kg	570	37.	1
Dibromochloromethane	ND		ug/kg	160	29.	1
1,1,2-Trichloroethane	ND		ug/kg	240	51.	1
Tetrachloroethene	ND		ug/kg	160	49.	1
Chlorobenzene	ND		ug/kg	160	56.	1
Trichlorofluoromethane	ND		ug/kg	810	68.	1
1,2-Dichloroethane	ND		ug/kg	160	40.	1
1,1,1-Trichloroethane	ND		ug/kg	160	57.	1
Bromodichloromethane	ND		ug/kg	160	50.	1
trans-1,3-Dichloropropene	ND		ug/kg	160	34.	1
cis-1,3-Dichloropropene	ND		ug/kg	160	38.	1
1,1-Dichloropropene	ND		ug/kg	810	53.	1
Bromoform	ND		ug/kg	650	38.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	160	48.	1
Benzene	ND		ug/kg	160	31.	1
Toluene	700		ug/kg	240	32.	1
Ethylbenzene	ND		ug/kg	160	28.	1
Vinyl chloride	ND		ug/kg	320	51.	1
Chloroethane	ND		ug/kg	320	51.	1
1,1-Dichloroethene	ND		ug/kg	160	60.	1
trans-1,2-Dichloroethene	ND		ug/kg	240	39.	1
Trichloroethene	ND		ug/kg	160	49.	1
1,2-Dichlorobenzene	ND		ug/kg	810	30.	1
1,3-Dichlorobenzene	ND		ug/kg	810	35.	1
1,4-Dichlorobenzene	110	J	ug/kg	810	30.	1
Methyl tert butyl ether	ND		ug/kg	320	25.	1



NYSCEF DOC NO: 48 Project Name: GCA1702

RECEIVED NYSCEF: 06/14/2022 Lab Number: Page 12/1068

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-06
 Client ID: 8PLP
 Sample Location: ST. JAMES, NY

Date Collected: 08/09/17 11:50
 Date Received: 08/09/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	320	57.	1
o-Xylene	ND		ug/kg	320	55.	1
cis-1,2-Dichloroethene	ND		ug/kg	160	56.	1
Dibromomethane	ND		ug/kg	1600	39.	1
Styrene	ND		ug/kg	320	65.	1
Dichlorodifluoromethane	ND		ug/kg	1600	81.	1
Acetone	1100	J	ug/kg	1600	370	1
2-Butanone	ND		ug/kg	1600	110	1
4-Methyl-2-pentanone	ND		ug/kg	1600	40.	1
1,2,3-Trichloropropane	ND		ug/kg	1600	29.	1
Bromochloromethane	ND		ug/kg	810	58.	1
2,2-Dichloropropane	ND		ug/kg	810	73.	1
1,2-Dibromoethane	ND		ug/kg	650	32.	1
1,3-Dichloropropane	ND		ug/kg	810	30.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	160	52.	1
Bromobenzene	ND		ug/kg	810	36.	1
n-Butylbenzene	ND		ug/kg	160	37.	1
sec-Butylbenzene	ND		ug/kg	160	35.	1
tert-Butylbenzene	ND		ug/kg	810	40.	1
o-Chlorotoluene	ND		ug/kg	810	36.	1
p-Chlorotoluene	ND		ug/kg	810	30.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	810	64.	1
Hexachlorobutadiene	ND		ug/kg	810	56.	1
Isopropylbenzene	ND		ug/kg	160	32.	1
p-Isopropyltoluene	4200		ug/kg	160	33.	1
Naphthalene	ND		ug/kg	810	22.	1
n-Propylbenzene	ND		ug/kg	160	35.	1
1,2,3-Trichlorobenzene	ND		ug/kg	810	41.	1
1,2,4-Trichlorobenzene	ND		ug/kg	810	35.	1
1,3,5-Trimethylbenzene	ND		ug/kg	810	26.	1
1,2,4-Trimethylbenzene	31	J	ug/kg	810	30.	1
Freon-113	ND		ug/kg	3200	84.	1
p-Diethylbenzene	ND		ug/kg	650	650	1
p-Ethyltoluene	ND		ug/kg	650	38.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	650	25.	1



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF: 06/14/2022 Page 12 of 69

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-06
Client ID: 8PLP
Sample Location: ST. JAMES, NY

Date Collected: 08/09/17 11:50
Date Received: 08/09/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	88		70-130



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: 11776 RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-08 D
 Client ID: 11 ST
 Sample Location: ST. JAMES, NY

Date Collected: 08/09/17 12:30
 Date Received: 08/09/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/15/17 13:59
 Analyst: JC
 Percent Solids: 28%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	57000	9400	25
1,1-Dichloroethane	ND		ug/kg	8500	1500	25
Chloroform	ND		ug/kg	8500	2100	25
Carbon tetrachloride	ND		ug/kg	5700	2000	25
1,2-Dichloropropane	ND		ug/kg	20000	1300	25
Dibromochloromethane	ND		ug/kg	5700	1000	25
1,1,2-Trichloroethane	ND		ug/kg	8500	1800	25
Tetrachloroethene	ND		ug/kg	5700	1700	25
Chlorobenzene	550000		ug/kg	5700	2000	25
Trichlorofluoromethane	ND		ug/kg	28000	2400	25
1,2-Dichloroethane	ND		ug/kg	5700	1400	25
1,1,1-Trichloroethane	ND		ug/kg	5700	2000	25
Bromodichloromethane	ND		ug/kg	5700	1700	25
trans-1,3-Dichloropropene	ND		ug/kg	5700	1200	25
cis-1,3-Dichloropropene	ND		ug/kg	5700	1300	25
1,1-Dichloropropene	ND		ug/kg	28000	1900	25
Bromoform	ND		ug/kg	23000	1300	25
1,1,2,2-Tetrachloroethane	ND		ug/kg	5700	1700	25
Benzene	21000		ug/kg	5700	1100	25
Toluene	14000		ug/kg	8500	1100	25
Ethylbenzene	ND		ug/kg	5700	960	25
Vinyl chloride	ND		ug/kg	11000	1800	25
Chloroethane	ND		ug/kg	11000	1800	25
1,1-Dichloroethene	ND		ug/kg	5700	2100	25
trans-1,2-Dichloroethene	ND		ug/kg	8500	1400	25
Trichloroethene	ND		ug/kg	5700	1700	25
1,2-Dichlorobenzene	ND		ug/kg	28000	1000	25
1,3-Dichlorobenzene	ND		ug/kg	28000	1200	25
1,4-Dichlorobenzene	8200	J	ug/kg	28000	1000	25
Methyl tert butyl ether	ND		ug/kg	11000	870	25



NYSCEF DOC NO: 48 Project Name: GCA1702

RECEIVED NYSCEF: 06/14/2022 Lab Number: Page 12 of 14

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-08 D
 Client ID: 11 ST
 Sample Location: ST. JAMES, NY

Date Collected: 08/09/17 12:30
 Date Received: 08/09/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	11000	2000	25
o-Xylene	ND		ug/kg	11000	1900	25
cis-1,2-Dichloroethene	ND		ug/kg	5700	1900	25
Dibromomethane	ND		ug/kg	57000	1400	25
Styrene	ND		ug/kg	11000	2300	25
Dichlorodifluoromethane	ND		ug/kg	57000	2800	25
Acetone	ND		ug/kg	57000	13000	25
2-Butanone	ND		ug/kg	57000	3900	25
4-Methyl-2-pentanone	ND		ug/kg	57000	1400	25
1,2,3-Trichloropropane	ND		ug/kg	57000	1000	25
Bromochloromethane	ND		ug/kg	28000	2000	25
2,2-Dichloropropane	ND		ug/kg	28000	2600	25
1,2-Dibromoethane	ND		ug/kg	23000	1100	25
1,3-Dichloropropane	ND		ug/kg	28000	1000	25
1,1,1,2-Tetrachloroethane	ND		ug/kg	5700	1800	25
Bromobenzene	ND		ug/kg	28000	1200	25
n-Butylbenzene	ND		ug/kg	5700	1300	25
sec-Butylbenzene	ND		ug/kg	5700	1200	25
tert-Butylbenzene	ND		ug/kg	28000	1400	25
o-Chlorotoluene	ND		ug/kg	28000	1200	25
p-Chlorotoluene	ND		ug/kg	28000	1000	25
1,2-Dibromo-3-chloropropane	ND		ug/kg	28000	2200	25
Hexachlorobutadiene	ND		ug/kg	28000	2000	25
Isopropylbenzene	ND		ug/kg	5700	1100	25
p-Isopropyltoluene	ND		ug/kg	5700	1100	25
Naphthalene	ND		ug/kg	28000	780	25
n-Propylbenzene	ND		ug/kg	5700	1200	25
1,2,3-Trichlorobenzene	ND		ug/kg	28000	1400	25
1,2,4-Trichlorobenzene	ND		ug/kg	28000	1200	25
1,3,5-Trimethylbenzene	ND		ug/kg	28000	910	25
1,2,4-Trimethylbenzene	ND		ug/kg	28000	1000	25
Freon-113	ND		ug/kg	110000	2900	25
p-Diethylbenzene	ND		ug/kg	23000	23000	25
p-Ethyltoluene	ND		ug/kg	23000	1300	25
1,2,4,5-Tetramethylbenzene	ND		ug/kg	23000	890	25



Project Name: 48 GCA1702

Lab Number: 127764

RECEIVED NYSCEF: 06/14/2022 Page 1 of 2

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-08 D

Date Collected: 08/09/17 12:30

Client ID: 11 ST

Date Received: 08/09/17

Sample Location: ST. JAMES, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	92		70-130



NYSCEF DOC. NO. 48 Project Name: GCA1702

Lab Number: 1727764 RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-09
 Client ID: 11 SLP
 Sample Location: ST. JAMES, NY

Date Collected: 08/09/17 13:10
 Date Received: 08/09/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/15/17 14:25
 Analyst: JC
 Percent Solids: 21%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	3500	570	1
1,1-Dichloroethane	ND		ug/kg	520	94.	1
Chloroform	ND		ug/kg	520	130	1
Carbon tetrachloride	ND		ug/kg	350	120	1
1,2-Dichloropropane	ND		ug/kg	1200	79.	1
Dibromochloromethane	ND		ug/kg	350	61.	1
1,1,2-Trichloroethane	ND		ug/kg	520	110	1
Tetrachloroethene	ND		ug/kg	350	100	1
Chlorobenzene	370		ug/kg	350	120	1
Trichlorofluoromethane	ND		ug/kg	1700	140	1
1,2-Dichloroethane	ND		ug/kg	350	85.	1
1,1,1-Trichloroethane	ND		ug/kg	350	120	1
Bromodichloromethane	ND		ug/kg	350	110	1
trans-1,3-Dichloropropene	ND		ug/kg	350	72.	1
cis-1,3-Dichloropropene	ND		ug/kg	350	80.	1
1,1-Dichloropropene	ND		ug/kg	1700	110	1
Bromoform	ND		ug/kg	1400	82.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	350	100	1
Benzene	ND		ug/kg	350	67.	1
Toluene	5500		ug/kg	520	68.	1
Ethylbenzene	ND		ug/kg	350	59.	1
Vinyl chloride	ND		ug/kg	690	110	1
Chloroethane	ND		ug/kg	690	110	1
1,1-Dichloroethene	ND		ug/kg	350	130	1
trans-1,2-Dichloroethene	ND		ug/kg	520	84.	1
Trichloroethene	ND		ug/kg	350	100	1
1,2-Dichlorobenzene	ND		ug/kg	1700	63.	1
1,3-Dichlorobenzene	ND		ug/kg	1700	76.	1
1,4-Dichlorobenzene	140	J	ug/kg	1700	63.	1
Methyl tert butyl ether	ND		ug/kg	690	53.	1



Project Name: 48 GCA1702

Lab Number: 121074

RECEIVED NYSOFF: 06/14/2022

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-09
 Client ID: 11 SLP
 Sample Location: ST. JAMES, NY

Date Collected: 08/09/17 13:10
 Date Received: 08/09/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	690	120	1
o-Xylene	ND		ug/kg	690	120	1
cis-1,2-Dichloroethene	ND		ug/kg	350	120	1
Dibromomethane	ND		ug/kg	3500	83.	1
Styrene	ND		ug/kg	690	140	1
Dichlorodifluoromethane	ND		ug/kg	3500	170	1
Acetone	2300	J	ug/kg	3500	790	1
2-Butanone	ND		ug/kg	3500	240	1
4-Methyl-2-pentanone	ND		ug/kg	3500	85.	1
1,2,3-Trichloropropane	ND		ug/kg	3500	61.	1
Bromochloromethane	ND		ug/kg	1700	120	1
2,2-Dichloropropane	ND		ug/kg	1700	160	1
1,2-Dibromoethane	ND		ug/kg	1400	69.	1
1,3-Dichloropropane	ND		ug/kg	1700	64.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	350	110	1
Bromobenzene	ND		ug/kg	1700	76.	1
n-Butylbenzene	ND		ug/kg	350	79.	1
sec-Butylbenzene	ND		ug/kg	350	75.	1
tert-Butylbenzene	ND		ug/kg	1700	86.	1
o-Chlorotoluene	ND		ug/kg	1700	77.	1
p-Chlorotoluene	ND		ug/kg	1700	64.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1700	140	1
Hexachlorobutadiene	ND		ug/kg	1700	120	1
Isopropylbenzene	ND		ug/kg	350	67.	1
p-Isopropyltoluene	94	J	ug/kg	350	70.	1
Naphthalene	ND		ug/kg	1700	48.	1
n-Propylbenzene	ND		ug/kg	350	75.	1
1,2,3-Trichlorobenzene	ND		ug/kg	1700	87.	1
1,2,4-Trichlorobenzene	ND		ug/kg	1700	75.	1
1,3,5-Trimethylbenzene	ND		ug/kg	1700	56.	1
1,2,4-Trimethylbenzene	100	J	ug/kg	1700	64.	1
Freon-113	ND		ug/kg	6900	180	1
p-Diethylbenzene	ND		ug/kg	1400	1400	1
p-Ethyltoluene	ND		ug/kg	1400	81.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1400	54.	1



Project Name: 48 GCA1702

Lab Number: 127764

RECEIVED NYSCEF: 06/14/2022 Page 1 of 5

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-09
Client ID: 11 SLP
Sample Location: ST. JAMES, NY

Date Collected: 08/09/17 13:10
Date Received: 08/09/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	89		70-130



Project Name: GCA1702

Lab Number: L1727764

Project Number: GCA1702

Report Date: 08/24/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 08/15/17 08:45
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,06,08-09 Batch: WG1032019-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1

Project Name: GCA1702

Lab Number: L1727764

Project Number: GCA1702

Report Date: 08/24/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/15/17 08:45
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,06,08-09 Batch: WG1032019-5					
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
2-Butanone	ND		ug/kg	500	34.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.

Project Name: GCA1702

Lab Number: L1727764

Project Number: GCA1702

Report Date: 08/24/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 08/15/17 08:45
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,06,08-09 Batch: WG1032019-5					
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
Freon-113	ND		ug/kg	1000	26.
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	89		70-130



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,06,08-09 Batch: WG1032019-3 WG1032019-4								
Methylene chloride	110		104		70-130	6		30
1,1-Dichloroethane	119		112		70-130	6		30
Chloroform	112		106		70-130	6		30
Carbon tetrachloride	96		92		70-130	4		30
1,2-Dichloropropane	119		113		70-130	5		30
Dibromochloromethane	83		80		70-130	4		30
1,1,2-Trichloroethane	108		102		70-130	6		30
Tetrachloroethene	97		92		70-130	5		30
Chlorobenzene	102		96		70-130	6		30
Trichlorofluoromethane	114		109		70-139	4		30
1,2-Dichloroethane	112		106		70-130	6		30
1,1,1-Trichloroethane	110		104		70-130	6		30
Bromodichloromethane	100		96		70-130	4		30
trans-1,3-Dichloropropene	97		92		70-130	5		30
cis-1,3-Dichloropropene	103		97		70-130	6		30
1,1-Dichloropropene	117		110		70-130	6		30
Bromoform	73		71		70-130	3		30
1,1,1,2,2-Tetrachloroethane	104		99		70-130	5		30
Benzene	114		107		70-130	6		30
Toluene	102		95		70-130	7		30
Ethylbenzene	104		98		70-130	6		30
Vinyl chloride	110		103		67-130	7		30
Chloroethane	118		112		50-151	5		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,06,08-09 Batch: WG1032019-3 WG1032019-4								
1,1-Dichloroethene	108		104		65-135	4		30
trans-1,2-Dichloroethene	112		106		70-130	6		30
Trichloroethene	110		103		70-130	7		30
1,2-Dichlorobenzene	98		92		70-130	6		30
1,3-Dichlorobenzene	96		91		70-130	5		30
1,4-Dichlorobenzene	96		91		70-130	5		30
Methyl tert butyl ether	115		107		66-130	7		30
p/m-Xylene	104		97		70-130	7		30
o-Xylene	103		97		70-130	6		30
cis-1,2-Dichloroethene	113		108		70-130	5		30
Dibromomethane	108		103		70-130	5		30
Styrene	102		97		70-130	5		30
Dichlorodifluoromethane	92		87		30-146	6		30
Acetone	122		118		54-140	3		30
2-Butanone	98		97		70-130	1		30
4-Methyl-2-pentanone	102		94		70-130	8		30
1,2,3-Trichloropropane	106		101		68-130	5		30
Bromochloromethane	111		104		70-130	7		30
2,2-Dichloropropane	110		103		70-130	7		30
1,2-Dibromoethane	100		95		70-130	5		30
1,3-Dichloropropane	108		102		69-130	6		30
1,1,1,2-Tetrachloroethane	99		94		70-130	5		30
Bromobenzene	93		89		70-130	4		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,06,08-09 Batch: WG1032019-3 WG1032019-4								
n-Butylbenzene	107		100		70-130	7		30
sec-Butylbenzene	102		97		70-130	5		30
tert-Butylbenzene	103		97		70-130	6		30
o-Chlorotoluene	101		96		70-130	5		30
p-Chlorotoluene	104		100		70-130	4		30
1,2-Dibromo-3-chloropropane	78		73		68-130	7		30
Hexachlorobutadiene	92		87		67-130	6		30
Isopropylbenzene	104		98		70-130	6		30
p-Isopropyltoluene	101		96		70-130	5		30
Naphthalene	97		91		70-130	6		30
n-Propylbenzene	107		101		70-130	6		30
1,2,3-Trichlorobenzene	94		88		70-130	7		30
1,2,4-Trichlorobenzene	92		86		70-130	7		30
1,3,5-Trimethylbenzene	101		97		70-130	4		30
1,2,4-Trimethylbenzene	103		98		70-130	5		30
Freon-113	108		102		50-139	6		30
p-Diethylbenzene	97		92		70-130	5		30
p-Ethyltoluene	99		94		70-130	5		30
1,2,4,5-Tetramethylbenzene	96		90		70-130	6		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,06,08-09 Batch: WG1032019-3 WG1032019-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	98		98		70-130



SEMIVOLATILES



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: 172764

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Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-01 D
 Client ID: 14ST
 Sample Location: ST. JAMES, NY
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/16/17 11:37
 Analyst: KV
 Percent Solids: 34%

Date Collected: 08/09/17 09:05
 Date Received: 08/09/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	7700	990	20
Fluoranthene	ND		ug/kg	5800	1100	20
Benzo(a)anthracene	ND		ug/kg	5800	1100	20
Benzo(a)pyrene	ND		ug/kg	7700	2300	20
Benzo(b)fluoranthene	ND		ug/kg	5800	1600	20
Benzo(k)fluoranthene	ND		ug/kg	5800	1500	20
Chrysene	ND		ug/kg	5800	1000	20
Anthracene	ND		ug/kg	5800	1900	20
Benzo(ghi)perylene	ND		ug/kg	7700	1100	20
Fluorene	ND		ug/kg	9600	930	20
Phenanthrene	ND		ug/kg	5800	1200	20
Dibenzo(a,h)anthracene	ND		ug/kg	5800	1100	20
Indeno(1,2,3-cd)pyrene	ND		ug/kg	7700	1300	20
Pyrene	ND		ug/kg	5800	950	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
4-Terphenyl-d14	0	Q	18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: L1727764

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Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-06
 Client ID: 8PLP
 Sample Location: ST. JAMES, NY
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/14/17 01:40
 Analyst: CB
 Percent Solids: 43%

Date Collected: 08/09/17 11:50
 Date Received: 08/09/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	310	40.	1
Fluoranthene	350		ug/kg	230	44.	1
Benzo(a)anthracene	150	J	ug/kg	230	43.	1
Benzo(a)pyrene	170	J	ug/kg	310	94.	1
Benzo(b)fluoranthene	280		ug/kg	230	65.	1
Benzo(k)fluoranthene	110	J	ug/kg	230	62.	1
Chrysene	200	J	ug/kg	230	40.	1
Anthracene	ND		ug/kg	230	75.	1
Benzo(ghi)perylene	150	J	ug/kg	310	45.	1
Fluorene	ND		ug/kg	380	37.	1
Phenanthrene	170	J	ug/kg	230	47.	1
Dibenzo(a,h)anthracene	ND		ug/kg	230	44.	1
Indeno(1,2,3-cd)pyrene	180	J	ug/kg	310	54.	1
Pyrene	280		ug/kg	230	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	43		30-120
4-Terphenyl-d14	37		18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: 1727764

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Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-08
 Client ID: 11 ST
 Sample Location: ST. JAMES, NY
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/16/17 01:14
 Analyst: SZ
 Percent Solids: 28%

Date Collected: 08/09/17 12:30
 Date Received: 08/09/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 08:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	460	59.	1
Fluoranthene	350		ug/kg	340	66.	1
Benzo(a)anthracene	150	J	ug/kg	340	64.	1
Benzo(a)pyrene	150	J	ug/kg	460	140	1
Benzo(b)fluoranthene	200	J	ug/kg	340	96.	1
Benzo(k)fluoranthene	ND		ug/kg	340	92.	1
Chrysene	170	J	ug/kg	340	60.	1
Anthracene	ND		ug/kg	340	110	1
Benzo(ghi)perylene	ND		ug/kg	460	67.	1
Fluorene	68	J	ug/kg	570	56.	1
Phenanthrene	330	J	ug/kg	340	70.	1
Dibenzo(a,h)anthracene	ND		ug/kg	340	66.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	460	80.	1
Pyrene	290	J	ug/kg	340	57.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	44		30-120
4-Terphenyl-d14	45		18-120



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Lab Number: 172764

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Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-09
 Client ID: 11 SLP
 Sample Location: ST. JAMES, NY
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/16/17 02:11
 Analyst: SZ
 Percent Solids: 21%

Date Collected: 08/09/17 13:10
 Date Received: 08/09/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 08:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1500		ug/kg	620	81.	1
Fluoranthene	16000		ug/kg	470	89.	1
Benzo(a)anthracene	13000		ug/kg	470	88.	1
Benzo(a)pyrene	14000		ug/kg	620	190	1
Benzo(b)fluoranthene	14000		ug/kg	470	130	1
Benzo(k)fluoranthene	4900		ug/kg	470	120	1
Chrysene	13000		ug/kg	470	81.	1
Anthracene	2900		ug/kg	470	150	1
Benzo(ghi)perylene	7600		ug/kg	620	92.	1
Fluorene	1300		ug/kg	780	76.	1
Phenanthrene	11000		ug/kg	470	95.	1
Dibenzo(a,h)anthracene	2400		ug/kg	470	90.	1
Indeno(1,2,3-cd)pyrene	8000		ug/kg	620	110	1
Pyrene	16000		ug/kg	470	77.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	56		30-120
4-Terphenyl-d14	51		18-120



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Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 08/12/17 10:33
 Analyst: CB

Extraction Method: EPA 3546
 Extraction Date: 08/11/17 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,06 Batch: WG1031163-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	99	19.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	98		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	94		18-120

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Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 08/12/17 12:14
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 08/11/17 17:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1031273-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	98	19.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	86		18-120

Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,06 Batch: WG1031163-2 WG1031163-3								
Acenaphthene	97		82		31-137	17		50
Fluoranthene	100		83		40-140	19		50
Benzo(a)anthracene	92		78		40-140	16		50
Benzo(a)pyrene	88		82		40-140	7		50
Benzo(b)fluoranthene	98		80		40-140	20		50
Benzo(k)fluoranthene	97		85		40-140	13		50
Chrysene	95		79		40-140	18		50
Anthracene	98		79		40-140	21		50
Benzo(ghi)perylene	102		89		40-140	14		50
Fluorene	97		83		40-140	16		50
Phenanthrene	96		78		40-140	21		50
Dibenzo(a,h)anthracene	100		84		40-140	17		50
Indeno(1,2,3-cd)pyrene	104		88		40-140	17		50
Pyrene	102		82		35-142	22		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	99		76		25-120
Phenol-d6	100		74		10-120
Nitrobenzene-d5	101		74		23-120
2-Fluorobiphenyl	103		81		30-120
2,4,6-Tribromophenol	102		88		10-136
4-Terphenyl-d14	104		84		18-120



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1031273-2 WG1031273-3								
Acenaphthene	83		74		31-137	11		50
Fluoranthene	84		72		40-140	15		50
Benzo(a)anthracene	81		74		40-140	9		50
Benzo(a)pyrene	84		75		40-140	11		50
Benzo(b)fluoranthene	86		76		40-140	12		50
Benzo(k)fluoranthene	86		76		40-140	12		50
Chrysene	84		76		40-140	10		50
Anthracene	84		75		40-140	11		50
Benzo(ghi)perylene	76		72		40-140	5		50
Fluorene	79		72		40-140	9		50
Phenanthrene	84		74		40-140	13		50
Dibenzo(a,h)anthracene	82		74		40-140	10		50
Indeno(1,2,3-cd)pyrene	79		72		40-140	9		50
Pyrene	82		71		35-142	14		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	87		77		25-120
Phenol-d6	89		77		10-120
Nitrobenzene-d5	83		74		23-120
2-Fluorobiphenyl	85		74		30-120
2,4,6-Tribromophenol	94		83		10-136
4-Terphenyl-d14	88		78		18-120



METALS



NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L1727764-093

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-01
 Client ID: 14ST
 Sample Location: ST. JAMES, NY
 Matrix: Soil
 Percent Solids: 34%

Date Collected: 08/09/17 09:05
 Date Received: 08/09/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	0.771	J	mg/kg	1.12	0.232	1	08/10/17 22:10	08/15/17 17:42	EPA 3050B	1,6010C	PS
Barium, Total	57.0		mg/kg	1.12	0.194	1	08/10/17 22:10	08/15/17 17:42	EPA 3050B	1,6010C	PS
Beryllium, Total	0.045	J	mg/kg	0.558	0.037	1	08/10/17 22:10	08/15/17 17:42	EPA 3050B	1,6010C	PS
Cadmium, Total	1.63		mg/kg	1.12	0.109	1	08/10/17 22:10	08/15/17 17:42	EPA 3050B	1,6010C	PS
Chromium, Total	16.0		mg/kg	1.12	0.107	1	08/10/17 22:10	08/15/17 17:42	EPA 3050B	1,6010C	PS
Copper, Total	249		mg/kg	1.12	0.288	1	08/10/17 22:10	08/15/17 17:42	EPA 3050B	1,6010C	PS
Lead, Total	23.6		mg/kg	5.58	0.299	1	08/10/17 22:10	08/15/17 17:42	EPA 3050B	1,6010C	PS
Mercury, Total	0.31		mg/kg	0.18	0.04	1	08/11/17 07:30	08/11/17 19:13	EPA 7471B	1,7471B	MG
Nickel, Total	7.68		mg/kg	2.79	0.270	1	08/10/17 22:10	08/15/17 17:42	EPA 3050B	1,6010C	PS
Selenium, Total	2.17	J	mg/kg	2.23	0.288	1	08/10/17 22:10	08/15/17 17:42	EPA 3050B	1,6010C	PS
Silver, Total	9.04		mg/kg	1.12	0.316	1	08/10/17 22:10	08/15/17 17:42	EPA 3050B	1,6010C	PS



NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L1727764-094

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-06
 Client ID: 8PLP
 Sample Location: ST. JAMES, NY
 Matrix: Soil
 Percent Solids: 43%

Date Collected: 08/09/17 11:50
 Date Received: 08/09/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	2.13		mg/kg	0.891	0.185	1	08/10/17 22:10	08/15/17 17:47	EPA 3050B	1,6010C	PS
Barium, Total	26.8		mg/kg	0.891	0.155	1	08/10/17 22:10	08/15/17 17:47	EPA 3050B	1,6010C	PS
Beryllium, Total	0.098	J	mg/kg	0.446	0.029	1	08/10/17 22:10	08/15/17 17:47	EPA 3050B	1,6010C	PS
Cadmium, Total	0.677	J	mg/kg	0.891	0.087	1	08/10/17 22:10	08/15/17 17:47	EPA 3050B	1,6010C	PS
Chromium, Total	15.0		mg/kg	0.891	0.086	1	08/10/17 22:10	08/15/17 17:47	EPA 3050B	1,6010C	PS
Copper, Total	125		mg/kg	0.891	0.230	1	08/10/17 22:10	08/15/17 17:47	EPA 3050B	1,6010C	PS
Lead, Total	68.0		mg/kg	4.46	0.239	1	08/10/17 22:10	08/15/17 17:47	EPA 3050B	1,6010C	PS
Mercury, Total	0.20		mg/kg	0.15	0.03	1	08/11/17 07:30	08/11/17 19:14	EPA 7471B	1,7471B	MG
Nickel, Total	8.69		mg/kg	2.23	0.216	1	08/10/17 22:10	08/15/17 17:47	EPA 3050B	1,6010C	PS
Selenium, Total	1.35	J	mg/kg	1.78	0.230	1	08/10/17 22:10	08/15/17 17:47	EPA 3050B	1,6010C	PS
Silver, Total	0.428	J	mg/kg	0.891	0.252	1	08/10/17 22:10	08/15/17 17:47	EPA 3050B	1,6010C	PS

NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L1727764

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-08
 Client ID: 11 ST
 Sample Location: ST. JAMES, NY
 Matrix: Soil
 Percent Solids: 28%

Date Collected: 08/09/17 12:30
 Date Received: 08/09/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	5.96		mg/kg	1.38	0.286	1	08/10/17 22:10	08/15/17 17:52	EPA 3050B	1,6010C	PS
Barium, Total	136		mg/kg	1.38	0.239	1	08/10/17 22:10	08/15/17 17:52	EPA 3050B	1,6010C	PS
Beryllium, Total	0.096	J	mg/kg	0.688	0.045	1	08/10/17 22:10	08/15/17 17:52	EPA 3050B	1,6010C	PS
Cadmium, Total	12.7		mg/kg	1.38	0.135	1	08/10/17 22:10	08/15/17 17:52	EPA 3050B	1,6010C	PS
Chromium, Total	57.8		mg/kg	1.38	0.132	1	08/10/17 22:10	08/15/17 17:52	EPA 3050B	1,6010C	PS
Copper, Total	311		mg/kg	1.38	0.355	1	08/10/17 22:10	08/15/17 17:52	EPA 3050B	1,6010C	PS
Lead, Total	153		mg/kg	6.88	0.369	1	08/10/17 22:10	08/15/17 17:52	EPA 3050B	1,6010C	PS
Mercury, Total	3.8		mg/kg	0.22	0.05	1	08/11/17 07:30	08/11/17 19:16	EPA 7471B	1,7471B	MG
Nickel, Total	41.8		mg/kg	3.44	0.333	1	08/10/17 22:10	08/15/17 17:52	EPA 3050B	1,6010C	PS
Selenium, Total	2.34	J	mg/kg	2.75	0.355	1	08/10/17 22:10	08/15/17 17:52	EPA 3050B	1,6010C	PS
Silver, Total	24.4		mg/kg	1.38	0.389	1	08/10/17 22:10	08/15/17 17:52	EPA 3050B	1,6010C	PS

NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727764-096

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-09
 Client ID: 11 SLP
 Sample Location: ST. JAMES, NY
 Matrix: Soil
 Percent Solids: 21%

Date Collected: 08/09/17 13:10
 Date Received: 08/09/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	3.61		mg/kg	1.84	0.383	1	08/10/17 22:10	08/15/17 17:57	EPA 3050B	1,6010C	PS
Barium, Total	198		mg/kg	1.84	0.320	1	08/10/17 22:10	08/15/17 17:57	EPA 3050B	1,6010C	PS
Beryllium, Total	0.147	J	mg/kg	0.920	0.061	1	08/10/17 22:10	08/15/17 17:57	EPA 3050B	1,6010C	PS
Cadmium, Total	5.50		mg/kg	1.84	0.180	1	08/10/17 22:10	08/15/17 17:57	EPA 3050B	1,6010C	PS
Chromium, Total	52.4		mg/kg	1.84	0.177	1	08/10/17 22:10	08/15/17 17:57	EPA 3050B	1,6010C	PS
Copper, Total	813		mg/kg	1.84	0.475	1	08/10/17 22:10	08/15/17 17:57	EPA 3050B	1,6010C	PS
Lead, Total	138		mg/kg	9.20	0.493	1	08/10/17 22:10	08/15/17 17:57	EPA 3050B	1,6010C	PS
Mercury, Total	1.9		mg/kg	0.30	0.06	1	08/11/17 07:30	08/11/17 19:18	EPA 7471B	1,7471B	MG
Nickel, Total	29.0		mg/kg	4.60	0.445	1	08/10/17 22:10	08/15/17 17:57	EPA 3050B	1,6010C	PS
Selenium, Total	5.56		mg/kg	3.68	0.475	1	08/10/17 22:10	08/15/17 17:57	EPA 3050B	1,6010C	PS
Silver, Total	10.2		mg/kg	1.84	0.521	1	08/10/17 22:10	08/15/17 17:57	EPA 3050B	1,6010C	PS



NYSCEF DOC. NO. 48
Project Name: GCA1702

RECEIVED NYSCEF: 06/14/2022
Lab Number: PLS 27767

Project Number: GCA1702

Report Date: 08/24/17

**Method Blank Analysis
 Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,06,08-09 Batch: WG1030877-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/10/17 22:10	08/15/17 13:16	1,6010C	PS
Barium, Total	ND		mg/kg	0.400	0.070	1	08/10/17 22:10	08/15/17 13:16	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/10/17 22:10	08/15/17 13:16	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/10/17 22:10	08/15/17 13:16	1,6010C	PS
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/10/17 22:10	08/15/17 13:16	1,6010C	PS
Copper, Total	ND		mg/kg	0.400	0.103	1	08/10/17 22:10	08/15/17 13:16	1,6010C	PS
Lead, Total	0.476	J	mg/kg	2.00	0.107	1	08/10/17 22:10	08/15/17 13:16	1,6010C	PS
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/10/17 22:10	08/15/17 13:16	1,6010C	PS
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/10/17 22:10	08/15/17 13:16	1,6010C	PS
Silver, Total	ND		mg/kg	0.400	0.113	1	08/10/17 22:10	08/15/17 13:16	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,06,08-09 Batch: WG1030985-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/11/17 07:30	08/11/17 18:37	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01,06,08-09 Batch: WG1030877-2 SRM Lot Number: D093-540								
Arsenic, Total	94		-		70-130	-		
Barium, Total	93		-		83-117	-		
Beryllium, Total	94		-		83-117	-		
Cadmium, Total	92		-		83-117	-		
Chromium, Total	90		-		80-120	-		
Copper, Total	97		-		82-118	-		
Lead, Total	91		-		82-117	-		
Nickel, Total	93		-		83-117	-		
Selenium, Total	96		-		78-122	-		
Silver, Total	98		-		76-124	-		
Total Metals - Mansfield Lab Associated sample(s): 01,06,08-09 Batch: WG1030985-2 SRM Lot Number: D093-540								
Mercury, Total	78		-		72-128	-		



**Matrix Spike Analysis
 Batch Quality Control**

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,06,08-09 QC Batch ID: WG1030877-3 QC Sample: L1727739-01 Client ID: MS Sample												
Arsenic, Total	28.2	73.5	103	102		-	-		75-125	-		20
Barium, Total	166.	1220	1500	109		-	-		75-125	-		20
Beryllium, Total	0.216J	30.6	32.9	107		-	-		75-125	-		20
Cadmium, Total	35.4	31.2	72.8	120		-	-		75-125	-		20
Chromium, Total	73.5	122	189	94		-	-		75-125	-		20
Copper, Total	6780	153	3990	0	Q	-	-		75-125	-		20
Lead, Total	162.	312	456	94		-	-		75-125	-		20
Nickel, Total	108.	306	415	100		-	-		75-125	-		20
Selenium, Total	3.80J	73.5	77.9	106		-	-		75-125	-		20
Silver, Total	ND	184	192	104		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01,06,08-09 QC Batch ID: WG1030985-3 QC Sample: L1724678-02 Client ID: MS Sample												
Mercury, Total	ND	0.157	0.15	96		-	-		80-120	-		20



Lab Duplicate Analysis
Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,06,08-09 QC Batch ID: WG1030877-4 QC Sample: L1727739-01 Client ID: DUP Sample						
Arsenic, Total	28.2	31.9	mg/kg	12		20
Beryllium, Total	0.216J	0.302J	mg/kg	NC		20
Cadmium, Total	35.4	35.8	mg/kg	1		20
Chromium, Total	73.5	69.6	mg/kg	5		20
Copper, Total	6780	6840	mg/kg	1		20
Lead, Total	162.	165	mg/kg	2		20
Nickel, Total	108.	99.2	mg/kg	8		20
Selenium, Total	3.80J	6.80	mg/kg	NC		20
Silver, Total	ND	1.12J	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01,06,08-09 QC Batch ID: WG1030985-4 QC Sample: L1724678-02 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20



**INORGANICS
&
MISCELLANEOUS**



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727764

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-01
Client ID: 14ST
Sample Location: ST. JAMES, NY
Matrix: Soil

Date Collected: 08/09/17 09:05
Date Received: 08/09/17
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	34.2		%	0.100	NA	1	-	08/10/17 13:37	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727764

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-06
Client ID: 8PLP
Sample Location: ST. JAMES, NY
Matrix: Soil

Date Collected: 08/09/17 11:50
Date Received: 08/09/17
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	42.5		%	0.100	NA	1	-	08/10/17 13:37	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727764

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-08
Client ID: 11 ST
Sample Location: ST. JAMES, NY
Matrix: Soil

Date Collected: 08/09/17 12:30
Date Received: 08/09/17
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	28.4		%	0.100	NA	1	-	08/10/17 13:37	121,2540G	RI



Project Name: GCA1702

Lab Number: L1727764

Project Number: GCA1702

Report Date: 08/24/17

SAMPLE RESULTS

Lab ID: L1727764-09
Client ID: 11 SLP
Sample Location: ST. JAMES, NY
Matrix: Soil

Date Collected: 08/09/17 13:10
Date Received: 08/09/17
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	21.1		%	0.100	NA	1	-	08/10/17 13:37	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727764
Report Date: 08/24/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,06,08-09 QC Batch ID: WG1030744-1 QC Sample: L1727675-01 Client ID: DUP Sample						
Solids, Total	89.1	89.7	%	1		20



NYSCEF DOC NO: 48 **Project Name:** GCA1702

Lab Number: GCA1702 **Page 1 of 1094**

Project Number: GCA1702

Report Date: 08/24/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1727764-01A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727764-01B	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	NYTCL-8260HLW(14)
L1727764-01C	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	NYTCL-8260HLW(14)
L1727764-01D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1727764-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727764-01F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)
L1727764-02A	Vial MeOH preserved	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L1727764-02B	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	HOLD-8260HLW(14)
L1727764-02C	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	HOLD-8260HLW(14)
L1727764-02D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L1727764-02E	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L1727764-02F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1727764-03A	Vial MeOH preserved	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L1727764-03B	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	HOLD-8260HLW(14)
L1727764-03C	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	HOLD-8260HLW(14)
L1727764-03D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L1727764-03E	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L1727764-03F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1727764-04A	Vial MeOH preserved	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L1727764-04B	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	HOLD-8260HLW(14)
L1727764-04C	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	HOLD-8260HLW(14)
L1727764-04D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()

*Values in parentheses indicate holding time in days



NYSCEF DOC NO: 48
Project Name: GCA1702

FILED IN NYSCFB: 06/14/2022
Lab Number: C72764
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Project Number: GCA1702

Report Date: 08/24/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1727764-04E	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L1727764-04F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1727764-05A	Vial MeOH preserved	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L1727764-05B	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	HOLD-8260HLW(14)
L1727764-05C	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	HOLD-8260HLW(14)
L1727764-05D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L1727764-05E	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L1727764-05F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1727764-06A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727764-06B	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	NYTCL-8260HLW(14)
L1727764-06C	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	NYTCL-8260HLW(14)
L1727764-06D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1727764-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727764-06F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)
L1727764-07A	Vial MeOH preserved	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L1727764-07B	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	HOLD-8260HLW(14)
L1727764-07C	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	HOLD-8260HLW(14)
L1727764-07D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L1727764-07E	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L1727764-07F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1727764-08A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727764-08B	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	NYTCL-8260HLW(14)
L1727764-08C	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	NYTCL-8260HLW(14)
L1727764-08D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1727764-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727764-08F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)
L1727764-09A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)



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Project Number: GCA1702

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1727764-09B	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	NYTCL-8260HLW(14)
L1727764-09C	Vial water preserved	A	NA		2.7	Y	Absent	10-AUG-17 05:05	NYTCL-8260HLW(14)
L1727764-09D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1727764-09E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727764-09F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)



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Lab Number:

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Report Date:

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08/24/17

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers

Project Name: GCA1702**Lab Number:****Project Number:** GCA1702**Report Date:** 08/24/17**Data Qualifiers**

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.
- 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

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Lab Number: L1727764

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Project Number: GCA1702

Report Date: 08/24/17

REFERENCES

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

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.



Alpha Analytical Inc.

RECEIVED NYSCLERK ID No. 17873 2022

Facility: **Company-wide**

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Department: **Quality Assurance**Revision 10
Published Date: 1/16/2017 11:00:05 AMTitle: **Certificate/Approval Program Summary**

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Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPW

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

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; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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, SM9221E.

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. EPA 245.1 Hg.

Non-Potable Water


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

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 8/10/17

ALPHA Job #
L1727764

Client Information

Client: **PWG-C**

Address: **630 Johnson Ave. St. 7
Barnstable MA 01716**

Phone: **631-589-6353**

Fax:

Email: **Thomas.M@whitaker.com**

Project Information

Project Name: **GCA170Z**

Project Location: **St. James NY**

Project #

(Use Project name as Project #)

Project Manager: **Thomas Melia**

ALPHAQuote #:

Turn-Around Time
Standard Due Date:
Rush (only if pre approved) # of Days:

Deliverables

ASP-A ASP-B Same as Client Info

EQUIS (1 File) EQUIS (4 File)

Other

PO #

Billing Information

Regulatory Requirement

NY TOGS NY Part 375

AWQ Standards NY CP-51

NY Restricted Use Other

NY Unrestricted Use

NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
 NJ NY
 Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

VOCs (SCMHS)
SVOCs (SCMHS)
Metals (SCMHS)

Sample Filtration

Done
 Lab to do
 Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	VOCs (SCMHS)	SVOCs (SCMHS)	Metals (SCMHS)	Total Boil-off
		Date	Time						
27764-01	14ST	8/9	9:05	S	NIR	X	X	X	
-02	14EPLP		9:50			X	X	X	HOLD
-03	14ADLP		10:15			X	X	X	HOLD
-04	14RPLP		10:35			X	X	X	HOLD
-05	14CPLP		10:50			X	X	X	HOLD
-06	8PLP		11:50			X	X	X	
-07	8SLPA		12:05			X	X	X	HOLD
-08	11ST		1230			X	X	X	
-09	11SLP		1310			X	X	X	

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type

Preservative

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<i>Thomas Melia</i>	8/9/17 15:30	<i>BJB ADL</i>	8/9/17-16:47
<i>BJB</i>	8/9/17-19:47	<i>Paul V...</i>	8/9/17 21:40
<i>Paul V...</i>	8/10/17 02:08	<i>CJ</i>	8/10/17 02:08

Form No: 01-25 HC (rev. 30-Sept-2013)



ANALYTICAL REPORT

Lab Number: L1727982
Client: P. W. Grosser
630 Johnson Avenue
Suite 7
Bohemia, NY 11716
ATTN: Thomas Melia
Phone: (631) 589-6353
Project Name: GCA1702
Project Number: GCA1702
Report Date: 08/25/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702**Lab Number:** L1727982**Project Number:** GCA1702**Report Date:** 08/25/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1727982-01	7ST	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 08:45	08/10/17
L1727982-02	7PLP	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 09:00	08/10/17
L1727982-03	9ST	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 09:25	08/10/17
L1727982-04	9SLPC	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 09:30	08/10/17
L1727982-05	9PLP	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 09:40	08/10/17
L1727982-06	9SLPB	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 09:55	08/10/17
L1727982-07	9SLPA	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 10:00	08/10/17
L1727982-08	10ST	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 10:35	08/10/17
L1727982-09	10SLPA	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 10:40	08/10/17
L1727982-10	10SLPC	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 10:55	08/10/17
L1727982-11	10SLPB	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 11:05	08/10/17
L1727982-12	MH1	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 12:10	08/10/17
L1727982-13	12PLP	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 12:15	08/10/17
L1727982-14	12ST	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 12:25	08/10/17
L1727982-15	12SLPA	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 12:30	08/10/17
L1727982-16	12SLPB	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 12:40	08/10/17
L1727982-17	12SLPC	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 12:50	08/10/17
L1727982-18	13ST	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 13:15	08/10/17
L1727982-19	13PLP	SOIL	FLOWER FIELDS, ST. JAMES	08/10/17 13:20	08/10/17



Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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: GCA1702**Lab Number:** L1727982**Project Number:** GCA1702**Report Date:** 08/25/17**Case Narrative (continued)**

Report Submission

August 25, 2017: This final report includes the results of all requested analyses.

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

Sample Receipt

L1727982-11: The sample identified as "10SLB" on the chain of custody was identified as "10SLPB" on the container label. At the client's request, the sample is reported as "10SLPB".

Volatile Organics

L1727982-03 and -18: The sample was received without the appropriately preserved container for the Volatile Organics High Level analysis. An aliquot was taken from an unpreserved container and preserved appropriately. 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.

L1727982-09: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L1727982-12: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Semivolatile Organics

L1727982-05, -13, -18 and -19: The sample has elevated detection limits due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the non-target compounds present in the sample.

L1727982-05, -13, -18 and -19: The surrogate recoveries are below the acceptance criteria for nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.



Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

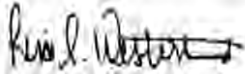
Case Narrative (continued)

Total Metals

The WG1031272-3 MS recovery for copper (135%), performed on L1727982-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1031272-3 MS recovery, performed on L1727982-01, is outside the acceptance criteria for silver (168%). A post digestion spike was performed and yielded an unacceptable recovery of 8.9%. This has been attributed to sample matrix.

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:  Lisa Westerlind

Title: Technical Director/Representative

Date: 08/25/17



ORGANICS



VOLATILES



Project Name: 48 GCA1702

Lab Number: 12192

RECEIVED NYS OFF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-01 D
 Client ID: 7ST
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 08:45
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/15/17 21:56
 Analyst: MV
 Percent Solids: 20%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	38000	6200	10
1,1-Dichloroethane	ND		ug/kg	5700	1000	10
Chloroform	ND		ug/kg	5700	1400	10
Carbon tetrachloride	ND		ug/kg	3800	1300	10
1,2-Dichloropropane	ND		ug/kg	13000	860	10
Dibromochloromethane	ND		ug/kg	3800	660	10
1,1,2-Trichloroethane	ND		ug/kg	5700	1200	10
Tetrachloroethene	ND		ug/kg	3800	1100	10
Chlorobenzene	450000		ug/kg	3800	1300	10
Trichlorofluoromethane	ND		ug/kg	19000	1600	10
1,2-Dichloroethane	ND		ug/kg	3800	930	10
1,1,1-Trichloroethane	ND		ug/kg	3800	1300	10
Bromodichloromethane	ND		ug/kg	3800	1200	10
trans-1,3-Dichloropropene	ND		ug/kg	3800	790	10
cis-1,3-Dichloropropene	ND		ug/kg	3800	870	10
1,1-Dichloropropene	ND		ug/kg	19000	1200	10
Bromoform	ND		ug/kg	15000	900	10
1,1,2,2-Tetrachloroethane	ND		ug/kg	3800	1100	10
Benzene	1200	J	ug/kg	3800	730	10
Toluene	ND		ug/kg	5700	740	10
Ethylbenzene	ND		ug/kg	3800	640	10
Vinyl chloride	ND		ug/kg	7600	1200	10
Chloroethane	ND		ug/kg	7600	1200	10
1,1-Dichloroethene	ND		ug/kg	3800	1400	10
trans-1,2-Dichloroethene	ND		ug/kg	5700	910	10
Trichloroethene	ND		ug/kg	3800	1100	10
1,2-Dichlorobenzene	ND		ug/kg	19000	690	10
1,3-Dichlorobenzene	ND		ug/kg	19000	820	10
1,4-Dichlorobenzene	7100	J	ug/kg	19000	690	10
Methyl tert butyl ether	ND		ug/kg	7600	580	10

NYSCEF DOC NO: 48 Project Name: GCA1702

RECEIVED NYSCEF No: 06/14/2022 Lab Number: Page 12123

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-01 D Date Collected: 08/10/17 08:45
 Client ID: 7ST Date Received: 08/10/17
 Sample Location: FLOWER FIELDS, ST. JAMES Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	7600	1300	10
o-Xylene	ND		ug/kg	7600	1300	10
cis-1,2-Dichloroethene	ND		ug/kg	3800	1300	10
Dibromomethane	ND		ug/kg	38000	900	10
Styrene	ND		ug/kg	7600	1500	10
Dichlorodifluoromethane	ND		ug/kg	38000	1900	10
Acetone	ND		ug/kg	38000	8600	10
2-Butanone	ND		ug/kg	38000	2600	10
4-Methyl-2-pentanone	ND		ug/kg	38000	920	10
1,2,3-Trichloropropane	ND		ug/kg	38000	670	10
Bromochloromethane	ND		ug/kg	19000	1300	10
2,2-Dichloropropane	ND		ug/kg	19000	1700	10
1,2-Dibromoethane	ND		ug/kg	15000	750	10
1,3-Dichloropropane	ND		ug/kg	19000	690	10
1,1,1,2-Tetrachloroethane	ND		ug/kg	3800	1200	10
Bromobenzene	ND		ug/kg	19000	830	10
n-Butylbenzene	ND		ug/kg	3800	860	10
sec-Butylbenzene	ND		ug/kg	3800	820	10
tert-Butylbenzene	ND		ug/kg	19000	930	10
o-Chlorotoluene	ND		ug/kg	19000	840	10
p-Chlorotoluene	ND		ug/kg	19000	690	10
1,2-Dibromo-3-chloropropane	ND		ug/kg	19000	1500	10
Hexachlorobutadiene	ND		ug/kg	19000	1300	10
Isopropylbenzene	ND		ug/kg	3800	730	10
p-Isopropyltoluene	ND		ug/kg	3800	760	10
Naphthalene	ND		ug/kg	19000	520	10
n-Propylbenzene	ND		ug/kg	3800	810	10
1,2,3-Trichlorobenzene	ND		ug/kg	19000	950	10
1,2,4-Trichlorobenzene	ND		ug/kg	19000	810	10
1,3,5-Trimethylbenzene	ND		ug/kg	19000	610	10
1,2,4-Trimethylbenzene	ND		ug/kg	19000	700	10
Freon-113	ND		ug/kg	76000	1900	10
p-Diethylbenzene	ND		ug/kg	15000	15000	10
p-Ethyltoluene	ND		ug/kg	15000	880	10
1,2,4,5-Tetramethylbenzene	ND		ug/kg	15000	590	10

Project Name: 48 GCA1702

Lab Number: 12124

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-01 D
Client ID: 7ST
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 08:45
Date Received: 08/10/17
Field Prep: Not Specified

Table with 8 columns: Parameter, Result, Qualifier, Units, RL, MDL, Dilution Factor. Row: Volatile Organics by 8260/5035 - Westborough Lab

Table with 4 columns: Surrogate, % Recovery, Qualifier, Acceptance Criteria. Rows: 1,2-Dichloroethane-d4, Toluene-d8, 4-Bromofluorobenzene, Dibromofluoromethane



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF No: 06/14/2022
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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-02
 Client ID: 7PLP
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:00
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/17 22:36
 Analyst: MV
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	0.79	1
1,1-Dichloroethane	ND		ug/kg	0.72	0.13	1
Chloroform	ND		ug/kg	0.72	0.18	1
Carbon tetrachloride	ND		ug/kg	0.48	0.16	1
1,2-Dichloropropane	ND		ug/kg	1.7	0.11	1
Dibromochloromethane	ND		ug/kg	0.48	0.08	1
1,1,2-Trichloroethane	ND		ug/kg	0.72	0.15	1
Tetrachloroethene	ND		ug/kg	0.48	0.14	1
Chlorobenzene	ND		ug/kg	0.48	0.17	1
Trichlorofluoromethane	ND		ug/kg	2.4	0.20	1
1,2-Dichloroethane	ND		ug/kg	0.48	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.17	1
Bromodichloromethane	ND		ug/kg	0.48	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	0.48	0.10	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.11	1
1,1-Dichloropropene	ND		ug/kg	2.4	0.16	1
Bromoform	ND		ug/kg	1.9	0.11	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.14	1
Benzene	ND		ug/kg	0.48	0.09	1
Toluene	ND		ug/kg	0.72	0.09	1
Ethylbenzene	ND		ug/kg	0.48	0.08	1
Vinyl chloride	ND		ug/kg	0.96	0.15	1
Chloroethane	ND		ug/kg	0.96	0.15	1
1,1-Dichloroethene	ND		ug/kg	0.48	0.18	1
trans-1,2-Dichloroethene	ND		ug/kg	0.72	0.12	1
Trichloroethene	ND		ug/kg	0.48	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.09	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.09	1
Methyl tert butyl ether	ND		ug/kg	0.96	0.07	1



Project Name: 48 GCA1702

Lab Number: 121126

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-02
 Client ID: 7PLP
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:00
 Date Received: 08/10/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	0.96	0.17	1
o-Xylene	ND		ug/kg	0.96	0.16	1
cis-1,2-Dichloroethene	ND		ug/kg	0.48	0.16	1
Dibromomethane	ND		ug/kg	4.8	0.11	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	4.8	0.24	1
Acetone	3.0	J	ug/kg	4.8	1.1	1
2-Butanone	ND		ug/kg	4.8	0.33	1
4-Methyl-2-pentanone	ND		ug/kg	4.8	0.12	1
1,2,3-Trichloropropane	ND		ug/kg	4.8	0.09	1
Bromochloromethane	ND		ug/kg	2.4	0.17	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.9	0.10	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.15	1
Bromobenzene	ND		ug/kg	2.4	0.10	1
n-Butylbenzene	ND		ug/kg	0.48	0.11	1
sec-Butylbenzene	ND		ug/kg	0.48	0.10	1
tert-Butylbenzene	ND		ug/kg	2.4	0.12	1
o-Chlorotoluene	ND		ug/kg	2.4	0.11	1
p-Chlorotoluene	ND		ug/kg	2.4	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	0.19	1
Hexachlorobutadiene	ND		ug/kg	2.4	0.17	1
Isopropylbenzene	ND		ug/kg	0.48	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.48	0.10	1
Naphthalene	ND		ug/kg	2.4	0.07	1
n-Propylbenzene	ND		ug/kg	0.48	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.12	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.10	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.08	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.09	1
Freon-113	ND		ug/kg	9.6	0.25	1
p-Diethylbenzene	ND		ug/kg	1.9	1.9	1
p-Ethyltoluene	ND		ug/kg	1.9	0.11	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.08	1

NYSCEF DOC NO. 48 Project Name: GCA1702

RECEIVED NYSCEF: 06/14/2022 Lab Number: Page 12 of 27

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-02
Client ID: 7PLP
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:00
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130



Project Name: 48 GCA1702

Lab Number: 1128

RECEIVED NYSCEF No: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-03
 Client ID: 9ST
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:25
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/17 10:42
 Analyst: MV
 Percent Solids: 12%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12000	2000	1
1,1-Dichloroethane	ND		ug/kg	1800	330	1
Chloroform	ND		ug/kg	1800	450	1
Carbon tetrachloride	ND		ug/kg	1200	420	1
1,2-Dichloropropane	ND		ug/kg	4300	280	1
Dibromochloromethane	ND		ug/kg	1200	210	1
1,1,2-Trichloroethane	ND		ug/kg	1800	380	1
Tetrachloroethene	ND		ug/kg	1200	370	1
Chlorobenzene	820	J	ug/kg	1200	420	1
Trichlorofluoromethane	ND		ug/kg	6100	510	1
1,2-Dichloroethane	ND		ug/kg	1200	300	1
1,1,1-Trichloroethane	ND		ug/kg	1200	430	1
Bromodichloromethane	ND		ug/kg	1200	380	1
trans-1,3-Dichloropropene	ND		ug/kg	1200	250	1
cis-1,3-Dichloropropene	ND		ug/kg	1200	280	1
1,1-Dichloropropene	ND		ug/kg	6100	400	1
Bromoform	ND		ug/kg	4900	290	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1200	360	1
Benzene	ND		ug/kg	1200	240	1
Toluene	23000		ug/kg	1800	240	1
Ethylbenzene	ND		ug/kg	1200	210	1
Vinyl chloride	ND		ug/kg	2400	380	1
Chloroethane	ND		ug/kg	2400	380	1
1,1-Dichloroethene	ND		ug/kg	1200	450	1
trans-1,2-Dichloroethene	ND		ug/kg	1800	290	1
Trichloroethene	ND		ug/kg	1200	370	1
1,2-Dichlorobenzene	ND		ug/kg	6100	220	1
1,3-Dichlorobenzene	ND		ug/kg	6100	270	1
1,4-Dichlorobenzene	620	J	ug/kg	6100	220	1
Methyl tert butyl ether	ND		ug/kg	2400	190	1



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF No: 06/14/2022
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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-03

Date Collected: 08/10/17 09:25

Client ID: 9ST

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	2400	430	1
o-Xylene	ND		ug/kg	2400	410	1
cis-1,2-Dichloroethene	ND		ug/kg	1200	420	1
Dibromomethane	ND		ug/kg	12000	290	1
Styrene	ND		ug/kg	2400	490	1
Dichlorodifluoromethane	ND		ug/kg	12000	610	1
Acetone	29000		ug/kg	12000	2800	1
2-Butanone	21000		ug/kg	12000	840	1
4-Methyl-2-pentanone	ND		ug/kg	12000	300	1
1,2,3-Trichloropropane	ND		ug/kg	12000	220	1
Bromochloromethane	ND		ug/kg	6100	440	1
2,2-Dichloropropane	ND		ug/kg	6100	550	1
1,2-Dibromoethane	ND		ug/kg	4900	240	1
1,3-Dichloropropane	ND		ug/kg	6100	220	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1200	390	1
Bromobenzene	ND		ug/kg	6100	270	1
n-Butylbenzene	ND		ug/kg	1200	280	1
sec-Butylbenzene	ND		ug/kg	1200	260	1
tert-Butylbenzene	ND		ug/kg	6100	300	1
o-Chlorotoluene	ND		ug/kg	6100	270	1
p-Chlorotoluene	ND		ug/kg	6100	220	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6100	480	1
Hexachlorobutadiene	ND		ug/kg	6100	420	1
Isopropylbenzene	ND		ug/kg	1200	240	1
p-Isopropyltoluene	2500		ug/kg	1200	250	1
Naphthalene	ND		ug/kg	6100	170	1
n-Propylbenzene	ND		ug/kg	1200	260	1
1,2,3-Trichlorobenzene	ND		ug/kg	6100	310	1
1,2,4-Trichlorobenzene	ND		ug/kg	6100	260	1
1,3,5-Trimethylbenzene	ND		ug/kg	6100	200	1
1,2,4-Trimethylbenzene	ND		ug/kg	6100	230	1
Freon-113	ND		ug/kg	24000	630	1
p-Diethylbenzene	ND		ug/kg	4900	4900	1
p-Ethyltoluene	ND		ug/kg	4900	280	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4900	190	1

Project Name: 48 GCA1702

Lab Number: 12136

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-03
Client ID: 9ST
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:25
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	107		70-130



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF No: 06/14/2022
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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-04
 Client ID: 9SLPC
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:30
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/17 11:08
 Analyst: MV
 Percent Solids: 24%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4600	760	1
1,1-Dichloroethane	ND		ug/kg	690	120	1
Chloroform	ND		ug/kg	690	170	1
Carbon tetrachloride	ND		ug/kg	460	160	1
1,2-Dichloropropane	ND		ug/kg	1600	100	1
Dibromochloromethane	ND		ug/kg	460	81.	1
1,1,2-Trichloroethane	ND		ug/kg	690	140	1
Tetrachloroethene	ND		ug/kg	460	140	1
Chlorobenzene	1000		ug/kg	460	160	1
Trichlorofluoromethane	ND		ug/kg	2300	190	1
1,2-Dichloroethane	ND		ug/kg	460	110	1
1,1,1-Trichloroethane	ND		ug/kg	460	160	1
Bromodichloromethane	ND		ug/kg	460	140	1
trans-1,3-Dichloropropene	ND		ug/kg	460	96.	1
cis-1,3-Dichloropropene	ND		ug/kg	460	110	1
1,1-Dichloropropene	ND		ug/kg	2300	150	1
Bromoform	ND		ug/kg	1800	110	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	460	140	1
Benzene	ND		ug/kg	460	89.	1
Toluene	56000		ug/kg	690	90.	1
Ethylbenzene	ND		ug/kg	460	78.	1
Vinyl chloride	ND		ug/kg	920	140	1
Chloroethane	ND		ug/kg	920	140	1
1,1-Dichloroethene	ND		ug/kg	460	170	1
trans-1,2-Dichloroethene	ND		ug/kg	690	110	1
Trichloroethene	ND		ug/kg	460	140	1
1,2-Dichlorobenzene	ND		ug/kg	2300	84.	1
1,3-Dichlorobenzene	ND		ug/kg	2300	100	1
1,4-Dichlorobenzene	170	J	ug/kg	2300	84.	1
Methyl tert butyl ether	ND		ug/kg	920	70.	1



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF No: 06/14/2022 Page 12192

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-04

Date Collected: 08/10/17 09:30

Client ID: 9SLPC

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	920	160	1
o-Xylene	ND		ug/kg	920	160	1
cis-1,2-Dichloroethene	ND		ug/kg	460	160	1
Dibromomethane	ND		ug/kg	4600	110	1
Styrene	ND		ug/kg	920	180	1
Dichlorodifluoromethane	ND		ug/kg	4600	230	1
Acetone	2300	J	ug/kg	4600	1000	1
2-Butanone	720	J	ug/kg	4600	320	1
4-Methyl-2-pentanone	ND		ug/kg	4600	110	1
1,2,3-Trichloropropane	ND		ug/kg	4600	82.	1
Bromochloromethane	ND		ug/kg	2300	160	1
2,2-Dichloropropane	ND		ug/kg	2300	210	1
1,2-Dibromoethane	ND		ug/kg	1800	92.	1
1,3-Dichloropropane	ND		ug/kg	2300	84.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	460	150	1
Bromobenzene	ND		ug/kg	2300	100	1
n-Butylbenzene	ND		ug/kg	460	100	1
sec-Butylbenzene	ND		ug/kg	460	100	1
tert-Butylbenzene	ND		ug/kg	2300	110	1
o-Chlorotoluene	ND		ug/kg	2300	100	1
p-Chlorotoluene	ND		ug/kg	2300	84.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2300	180	1
Hexachlorobutadiene	ND		ug/kg	2300	160	1
Isopropylbenzene	ND		ug/kg	460	89.	1
p-Isopropyltoluene	1400		ug/kg	460	93.	1
Naphthalene	ND		ug/kg	2300	64.	1
n-Propylbenzene	ND		ug/kg	460	99.	1
1,2,3-Trichlorobenzene	ND		ug/kg	2300	120	1
1,2,4-Trichlorobenzene	ND		ug/kg	2300	99.	1
1,3,5-Trimethylbenzene	ND		ug/kg	2300	74.	1
1,2,4-Trimethylbenzene	ND		ug/kg	2300	86.	1
Freon-113	ND		ug/kg	9200	240	1
p-Diethylbenzene	ND		ug/kg	1800	1800	1
p-Ethyltoluene	ND		ug/kg	1800	110	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1800	72.	1

Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF No. 06/14/2022 Page 12 of 133

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-04
Client ID: 9SLPC
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:30
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	109		70-130



Project Name: 48 GCA1702

Lab Number: 121134

RECEIVED NYSOFF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-05 D
 Client ID: 9PLP
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:40
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/15/17 23:14
 Analyst: MV
 Percent Solids: 41%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	19000	3200	10
1,1-Dichloroethane	ND		ug/kg	2900	520	10
Chloroform	ND		ug/kg	2900	710	10
Carbon tetrachloride	ND		ug/kg	1900	660	10
1,2-Dichloropropane	ND		ug/kg	6700	440	10
Dibromochloromethane	ND		ug/kg	1900	340	10
1,1,2-Trichloroethane	ND		ug/kg	2900	600	10
Tetrachloroethene	ND		ug/kg	1900	580	10
Chlorobenzene	750	J	ug/kg	1900	670	10
Trichlorofluoromethane	ND		ug/kg	9600	800	10
1,2-Dichloroethane	ND		ug/kg	1900	470	10
1,1,1-Trichloroethane	ND		ug/kg	1900	670	10
Bromodichloromethane	ND		ug/kg	1900	590	10
trans-1,3-Dichloropropene	ND		ug/kg	1900	400	10
cis-1,3-Dichloropropene	ND		ug/kg	1900	440	10
1,1-Dichloropropene	ND		ug/kg	9600	630	10
Bromoform	ND		ug/kg	7700	450	10
1,1,2,2-Tetrachloroethane	ND		ug/kg	1900	570	10
Benzene	ND		ug/kg	1900	370	10
Toluene	300000		ug/kg	2900	370	10
Ethylbenzene	ND		ug/kg	1900	320	10
Vinyl chloride	ND		ug/kg	3800	600	10
Chloroethane	ND		ug/kg	3800	600	10
1,1-Dichloroethene	ND		ug/kg	1900	710	10
trans-1,2-Dichloroethene	ND		ug/kg	2900	460	10
Trichloroethene	ND		ug/kg	1900	580	10
1,2-Dichlorobenzene	ND		ug/kg	9600	350	10
1,3-Dichlorobenzene	ND		ug/kg	9600	420	10
1,4-Dichlorobenzene	ND		ug/kg	9600	350	10
Methyl tert butyl ether	ND		ug/kg	3800	290	10



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF No: 06/14/2022
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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-05 D
Client ID: 9PLP
Sample Location: FLOWER FIELDS, ST. JAMESDate Collected: 08/10/17 09:40
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	3800	670	10
o-Xylene	ND		ug/kg	3800	650	10
cis-1,2-Dichloroethene	ND		ug/kg	1900	660	10
Dibromomethane	ND		ug/kg	19000	460	10
Styrene	ND		ug/kg	3800	770	10
Dichlorodifluoromethane	ND		ug/kg	19000	960	10
Acetone	7000	J	ug/kg	19000	4400	10
2-Butanone	ND		ug/kg	19000	1300	10
4-Methyl-2-pentanone	ND		ug/kg	19000	470	10
1,2,3-Trichloropropane	ND		ug/kg	19000	340	10
Bromochloromethane	ND		ug/kg	9600	680	10
2,2-Dichloropropane	ND		ug/kg	9600	860	10
1,2-Dibromoethane	ND		ug/kg	7700	380	10
1,3-Dichloropropane	ND		ug/kg	9600	350	10
1,1,1,2-Tetrachloroethane	ND		ug/kg	1900	610	10
Bromobenzene	ND		ug/kg	9600	420	10
n-Butylbenzene	ND		ug/kg	1900	440	10
sec-Butylbenzene	ND		ug/kg	1900	420	10
tert-Butylbenzene	ND		ug/kg	9600	470	10
o-Chlorotoluene	ND		ug/kg	9600	420	10
p-Chlorotoluene	ND		ug/kg	9600	350	10
1,2-Dibromo-3-chloropropane	ND		ug/kg	9600	760	10
Hexachlorobutadiene	ND		ug/kg	9600	670	10
Isopropylbenzene	ND		ug/kg	1900	370	10
p-Isopropyltoluene	5400		ug/kg	1900	390	10
Naphthalene	ND		ug/kg	9600	260	10
n-Propylbenzene	ND		ug/kg	1900	410	10
1,2,3-Trichlorobenzene	ND		ug/kg	9600	480	10
1,2,4-Trichlorobenzene	ND		ug/kg	9600	410	10
1,3,5-Trimethylbenzene	ND		ug/kg	9600	310	10
1,2,4-Trimethylbenzene	370	J	ug/kg	9600	360	10
Freon-113	ND		ug/kg	38000	980	10
p-Diethylbenzene	ND		ug/kg	7700	7700	10
p-Ethyltoluene	ND		ug/kg	7700	450	10
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7700	300	10

Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF: 06/14/2022 Page 12 of 36

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-05 D
Client ID: 9PLP
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:40
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	111		70-130



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF No: 06/14/2022
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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-08
 Client ID: 10ST
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 10:35
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/17 12:01
 Analyst: MV
 Percent Solids: 9%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11000	1800	1
1,1-Dichloroethane	ND		ug/kg	1600	290	1
Chloroform	ND		ug/kg	1600	400	1
Carbon tetrachloride	ND		ug/kg	1100	370	1
1,2-Dichloropropane	ND		ug/kg	3800	250	1
Dibromochloromethane	ND		ug/kg	1100	190	1
1,1,2-Trichloroethane	ND		ug/kg	1600	340	1
Tetrachloroethene	ND		ug/kg	1100	330	1
Chlorobenzene	ND		ug/kg	1100	380	1
Trichlorofluoromethane	ND		ug/kg	5400	450	1
1,2-Dichloroethane	ND		ug/kg	1100	270	1
1,1,1-Trichloroethane	ND		ug/kg	1100	380	1
Bromodichloromethane	ND		ug/kg	1100	330	1
trans-1,3-Dichloropropene	ND		ug/kg	1100	220	1
cis-1,3-Dichloropropene	ND		ug/kg	1100	250	1
1,1-Dichloropropene	ND		ug/kg	5400	360	1
Bromoform	ND		ug/kg	4300	260	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1100	320	1
Benzene	ND		ug/kg	1100	210	1
Toluene	70000		ug/kg	1600	210	1
Ethylbenzene	ND		ug/kg	1100	180	1
Vinyl chloride	ND		ug/kg	2200	340	1
Chloroethane	ND		ug/kg	2200	340	1
1,1-Dichloroethene	ND		ug/kg	1100	400	1
trans-1,2-Dichloroethene	ND		ug/kg	1600	260	1
Trichloroethene	ND		ug/kg	1100	330	1
1,2-Dichlorobenzene	ND		ug/kg	5400	200	1
1,3-Dichlorobenzene	ND		ug/kg	5400	240	1
1,4-Dichlorobenzene	ND		ug/kg	5400	200	1
Methyl tert butyl ether	ND		ug/kg	2200	170	1



Project Name: 48 GCA1702

Lab Number: 121138

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-08

Date Collected: 08/10/17 10:35

Client ID: 10ST

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	2200	380	1
o-Xylene	ND		ug/kg	2200	370	1
cis-1,2-Dichloroethene	ND		ug/kg	1100	370	1
Dibromomethane	ND		ug/kg	11000	260	1
Styrene	ND		ug/kg	2200	440	1
Dichlorodifluoromethane	ND		ug/kg	11000	540	1
Acetone	6300	J	ug/kg	11000	2500	1
2-Butanone	ND		ug/kg	11000	750	1
4-Methyl-2-pentanone	ND		ug/kg	11000	260	1
1,2,3-Trichloropropane	ND		ug/kg	11000	190	1
Bromochloromethane	ND		ug/kg	5400	390	1
2,2-Dichloropropane	ND		ug/kg	5400	490	1
1,2-Dibromoethane	ND		ug/kg	4300	220	1
1,3-Dichloropropane	ND		ug/kg	5400	200	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1100	340	1
Bromobenzene	ND		ug/kg	5400	240	1
n-Butylbenzene	ND		ug/kg	1100	250	1
sec-Butylbenzene	ND		ug/kg	1100	240	1
tert-Butylbenzene	ND		ug/kg	5400	270	1
o-Chlorotoluene	ND		ug/kg	5400	240	1
p-Chlorotoluene	ND		ug/kg	5400	200	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5400	430	1
Hexachlorobutadiene	ND		ug/kg	5400	380	1
Isopropylbenzene	ND		ug/kg	1100	210	1
p-Isopropyltoluene	280	J	ug/kg	1100	220	1
Naphthalene	ND		ug/kg	5400	150	1
n-Propylbenzene	ND		ug/kg	1100	230	1
1,2,3-Trichlorobenzene	ND		ug/kg	5400	270	1
1,2,4-Trichlorobenzene	ND		ug/kg	5400	230	1
1,3,5-Trimethylbenzene	ND		ug/kg	5400	170	1
1,2,4-Trimethylbenzene	ND		ug/kg	5400	200	1
Freon-113	ND		ug/kg	22000	560	1
p-Diethylbenzene	ND		ug/kg	4300	4300	1
p-Ethyltoluene	ND		ug/kg	4300	250	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4300	170	1



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF Doc: 06/14/2022 Page 12 of 39

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-08
Client ID: 10ST
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 10:35
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	110		70-130



Project Name: 48 GCA1702

Lab Number: 12146

RECEIVED NYS OFF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-09
 Client ID: 10SLPA
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 10:40
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/15/17 23:41
 Analyst: MV
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	730	120	1
1,1-Dichloroethane	ND		ug/kg	110	20.	1
Chloroform	ND		ug/kg	110	27.	1
Carbon tetrachloride	ND		ug/kg	73	25.	1
1,2-Dichloropropane	ND		ug/kg	260	17.	1
Dibromochloromethane	ND		ug/kg	73	13.	1
1,1,2-Trichloroethane	ND		ug/kg	110	23.	1
Tetrachloroethene	ND		ug/kg	73	22.	1
Chlorobenzene	ND		ug/kg	73	26.	1
Trichlorofluoromethane	ND		ug/kg	370	31.	1
1,2-Dichloroethane	ND		ug/kg	73	18.	1
1,1,1-Trichloroethane	ND		ug/kg	73	26.	1
Bromodichloromethane	ND		ug/kg	73	23.	1
trans-1,3-Dichloropropene	ND		ug/kg	73	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	73	17.	1
1,1-Dichloropropene	ND		ug/kg	370	24.	1
Bromoform	ND		ug/kg	290	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	73	22.	1
Benzene	ND		ug/kg	73	14.	1
Toluene	160		ug/kg	110	14.	1
Ethylbenzene	ND		ug/kg	73	12.	1
Vinyl chloride	ND		ug/kg	150	23.	1
Chloroethane	ND		ug/kg	150	23.	1
1,1-Dichloroethene	ND		ug/kg	73	27.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	18.	1
Trichloroethene	ND		ug/kg	73	22.	1
1,2-Dichlorobenzene	ND		ug/kg	370	13.	1
1,3-Dichlorobenzene	ND		ug/kg	370	16.	1
1,4-Dichlorobenzene	21	J	ug/kg	370	13.	1
Methyl tert butyl ether	ND		ug/kg	150	11.	1



NYSCEF DOC NO: 48 Project Name: GCA1702

RECEIVED NYSCEF: 06/14/2022 Lab Number: Page 12 of 141

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-09

Date Collected: 08/10/17 10:40

Client ID: 10SLPA

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	150	26.	1
o-Xylene	ND		ug/kg	150	25.	1
cis-1,2-Dichloroethene	ND		ug/kg	73	25.	1
Dibromomethane	ND		ug/kg	730	18.	1
Styrene	ND		ug/kg	150	29.	1
Dichlorodifluoromethane	ND		ug/kg	730	37.	1
Acetone	400	J	ug/kg	730	170	1
2-Butanone	ND		ug/kg	730	51.	1
4-Methyl-2-pentanone	ND		ug/kg	730	18.	1
1,2,3-Trichloropropane	ND		ug/kg	730	13.	1
Bromochloromethane	ND		ug/kg	370	26.	1
2,2-Dichloropropane	ND		ug/kg	370	33.	1
1,2-Dibromoethane	ND		ug/kg	290	15.	1
1,3-Dichloropropane	ND		ug/kg	370	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	73	23.	1
Bromobenzene	ND		ug/kg	370	16.	1
n-Butylbenzene	ND		ug/kg	73	17.	1
sec-Butylbenzene	ND		ug/kg	73	16.	1
tert-Butylbenzene	ND		ug/kg	370	18.	1
o-Chlorotoluene	ND		ug/kg	370	16.	1
p-Chlorotoluene	ND		ug/kg	370	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	370	29.	1
Hexachlorobutadiene	ND		ug/kg	370	26.	1
Isopropylbenzene	ND		ug/kg	73	14.	1
p-Isopropyltoluene	26	J	ug/kg	73	15.	1
Naphthalene	ND		ug/kg	370	10.	1
n-Propylbenzene	ND		ug/kg	73	16.	1
1,2,3-Trichlorobenzene	ND		ug/kg	370	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	370	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	370	12.	1
1,2,4-Trimethylbenzene	ND		ug/kg	370	14.	1
Freon-113	ND		ug/kg	1500	38.	1
p-Diethylbenzene	ND		ug/kg	290	290	1
p-Ethyltoluene	ND		ug/kg	290	17.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	290	11.	1



Project Name: 48 GCA1702

Lab Number: 12142

RECEIVED NYSCEF: 06/14/2022 Page 12142

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-09
Client ID: 10SLPA
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 10:40
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	111		70-130



Project Name: 48 GCA1702

Lab Number: 12193

RECEIVED NYSOFF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-12 D
 Client ID: MH1
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 12:10
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/17 00:07
 Analyst: MV
 Percent Solids: 31%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8800	1400	2
1,1-Dichloroethane	ND		ug/kg	1300	240	2
Chloroform	ND		ug/kg	1300	330	2
Carbon tetrachloride	ND		ug/kg	880	300	2
1,2-Dichloropropane	ND		ug/kg	3100	200	2
Dibromochloromethane	ND		ug/kg	880	160	2
1,1,2-Trichloroethane	ND		ug/kg	1300	280	2
Tetrachloroethene	ND		ug/kg	880	270	2
Chlorobenzene	12000		ug/kg	880	310	2
Trichlorofluoromethane	ND		ug/kg	4400	370	2
1,2-Dichloroethane	ND		ug/kg	880	220	2
1,1,1-Trichloroethane	ND		ug/kg	880	310	2
Bromodichloromethane	ND		ug/kg	880	270	2
trans-1,3-Dichloropropene	ND		ug/kg	880	180	2
cis-1,3-Dichloropropene	ND		ug/kg	880	200	2
1,1-Dichloropropene	ND		ug/kg	4400	290	2
Bromoform	ND		ug/kg	3500	210	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	880	260	2
Benzene	670	J	ug/kg	880	170	2
Toluene	630	J	ug/kg	1300	170	2
Ethylbenzene	280	J	ug/kg	880	150	2
Vinyl chloride	ND		ug/kg	1800	280	2
Chloroethane	ND		ug/kg	1800	280	2
1,1-Dichloroethene	ND		ug/kg	880	330	2
trans-1,2-Dichloroethene	ND		ug/kg	1300	210	2
Trichloroethene	ND		ug/kg	880	270	2
1,2-Dichlorobenzene	1800	J	ug/kg	4400	160	2
1,3-Dichlorobenzene	200	J	ug/kg	4400	190	2
1,4-Dichlorobenzene	3600	J	ug/kg	4400	160	2
Methyl tert butyl ether	ND		ug/kg	1800	130	2



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF: 06/14/2022 Page 121 of 144

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-12 D
 Client ID: MH1
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 12:10
 Date Received: 08/10/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	1500	J	ug/kg	1800	310	2
o-Xylene	820	J	ug/kg	1800	300	2
cis-1,2-Dichloroethene	ND		ug/kg	880	300	2
Dibromomethane	ND		ug/kg	8800	210	2
Styrene	ND		ug/kg	1800	350	2
Dichlorodifluoromethane	ND		ug/kg	8800	440	2
Acetone	12000		ug/kg	8800	2000	2
2-Butanone	3800	J	ug/kg	8800	610	2
4-Methyl-2-pentanone	ND		ug/kg	8800	220	2
1,2,3-Trichloropropane	ND		ug/kg	8800	160	2
Bromochloromethane	ND		ug/kg	4400	310	2
2,2-Dichloropropane	ND		ug/kg	4400	400	2
1,2-Dibromoethane	ND		ug/kg	3500	180	2
1,3-Dichloropropane	ND		ug/kg	4400	160	2
1,1,1,2-Tetrachloroethane	ND		ug/kg	880	280	2
Bromobenzene	ND		ug/kg	4400	190	2
n-Butylbenzene	1800		ug/kg	880	200	2
sec-Butylbenzene	1500		ug/kg	880	190	2
tert-Butylbenzene	ND		ug/kg	4400	220	2
o-Chlorotoluene	ND		ug/kg	4400	190	2
p-Chlorotoluene	ND		ug/kg	4400	160	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	4400	350	2
Hexachlorobutadiene	ND		ug/kg	4400	310	2
Isopropylbenzene	ND		ug/kg	880	170	2
p-Isopropyltoluene	2300		ug/kg	880	180	2
Naphthalene	2000	J	ug/kg	4400	120	2
n-Propylbenzene	1100		ug/kg	880	190	2
1,2,3-Trichlorobenzene	ND		ug/kg	4400	220	2
1,2,4-Trichlorobenzene	ND		ug/kg	4400	190	2
1,3,5-Trimethylbenzene	3800	J	ug/kg	4400	140	2
1,2,4-Trimethylbenzene	7800		ug/kg	4400	160	2
Freon-113	ND		ug/kg	18000	450	2
p-Diethylbenzene	10000		ug/kg	3500	3500	2
p-Ethyltoluene	4600		ug/kg	3500	210	2
1,2,4,5-Tetramethylbenzene	2700	J	ug/kg	3500	140	2

Project Name: 48 GCA1702

Lab Number: 12708

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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-12 D
Client ID: MH1
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 12:10
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	111		70-130



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: RECEIVED NYSCEF: 06/14/2022 Page 12 of 46

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-13
 Client ID: 12PLP
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 12:15
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/17 00:33
 Analyst: MV
 Percent Solids: 19%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6500	1100	1
1,1-Dichloroethane	ND		ug/kg	980	180	1
Chloroform	ND		ug/kg	980	240	1
Carbon tetrachloride	ND		ug/kg	650	220	1
1,2-Dichloropropane	ND		ug/kg	2300	150	1
Dibromochloromethane	ND		ug/kg	650	110	1
1,1,2-Trichloroethane	ND		ug/kg	980	200	1
Tetrachloroethene	ND		ug/kg	650	200	1
Chlorobenzene	ND		ug/kg	650	230	1
Trichlorofluoromethane	ND		ug/kg	3200	270	1
1,2-Dichloroethane	ND		ug/kg	650	160	1
1,1,1-Trichloroethane	ND		ug/kg	650	230	1
Bromodichloromethane	ND		ug/kg	650	200	1
trans-1,3-Dichloropropene	ND		ug/kg	650	140	1
cis-1,3-Dichloropropene	ND		ug/kg	650	150	1
1,1-Dichloropropene	ND		ug/kg	3200	210	1
Bromoform	ND		ug/kg	2600	150	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	650	190	1
Benzene	750		ug/kg	650	120	1
Toluene	130000		ug/kg	980	130	1
Ethylbenzene	34000		ug/kg	650	110	1
Vinyl chloride	ND		ug/kg	1300	200	1
Chloroethane	ND		ug/kg	1300	200	1
1,1-Dichloroethene	ND		ug/kg	650	240	1
trans-1,2-Dichloroethene	ND		ug/kg	980	160	1
Trichloroethene	ND		ug/kg	650	200	1
1,2-Dichlorobenzene	ND		ug/kg	3200	120	1
1,3-Dichlorobenzene	ND		ug/kg	3200	140	1
1,4-Dichlorobenzene	ND		ug/kg	3200	120	1
Methyl tert butyl ether	ND		ug/kg	1300	100	1



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSDCF 06/14/2022
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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-13
Client ID: 12PLP
Sample Location: FLOWER FIELDS, ST. JAMESDate Collected: 08/10/17 12:15
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	140000		ug/kg	1300	230	1
o-Xylene	51000		ug/kg	1300	220	1
cis-1,2-Dichloroethene	ND		ug/kg	650	220	1
Dibromomethane	ND		ug/kg	6500	160	1
Styrene	ND		ug/kg	1300	260	1
Dichlorodifluoromethane	ND		ug/kg	6500	320	1
Acetone	2300	J	ug/kg	6500	1500	1
2-Butanone	ND		ug/kg	6500	450	1
4-Methyl-2-pentanone	ND		ug/kg	6500	160	1
1,2,3-Trichloropropane	ND		ug/kg	6500	120	1
Bromochloromethane	ND		ug/kg	3200	230	1
2,2-Dichloropropane	ND		ug/kg	3200	290	1
1,2-Dibromoethane	ND		ug/kg	2600	130	1
1,3-Dichloropropane	ND		ug/kg	3200	120	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	650	210	1
Bromobenzene	ND		ug/kg	3200	140	1
n-Butylbenzene	4200		ug/kg	650	150	1
sec-Butylbenzene	2300		ug/kg	650	140	1
tert-Butylbenzene	ND		ug/kg	3200	160	1
o-Chlorotoluene	ND		ug/kg	3200	140	1
p-Chlorotoluene	ND		ug/kg	3200	120	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3200	260	1
Hexachlorobutadiene	ND		ug/kg	3200	230	1
Isopropylbenzene	6200		ug/kg	650	130	1
p-Isopropyltoluene	2500		ug/kg	650	130	1
Naphthalene	8500		ug/kg	3200	90.	1
n-Propylbenzene	19000		ug/kg	650	140	1
1,2,3-Trichlorobenzene	ND		ug/kg	3200	160	1
1,2,4-Trichlorobenzene	ND		ug/kg	3200	140	1
1,3,5-Trimethylbenzene	33000		ug/kg	3200	100	1
1,2,4-Trimethylbenzene	110000		ug/kg	3200	120	1
Freon-113	ND		ug/kg	13000	340	1
p-Diethylbenzene	30000		ug/kg	2600	2600	1
p-Ethyltoluene	98000		ug/kg	2600	150	1
1,2,4,5-Tetramethylbenzene	8800		ug/kg	2600	100	1

Project Name: 48 GCA1702

Lab Number: 12148

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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-13
Client ID: 12PLP
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 12:15
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	104		70-130



Project Name: 48 GCA1702

Lab Number: 12149

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-14
 Client ID: 12ST
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 12:25
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/17 00:59
 Analyst: MV
 Percent Solids: 32%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	2400	390	1
1,1-Dichloroethane	ND		ug/kg	360	64.	1
Chloroform	ND		ug/kg	360	88.	1
Carbon tetrachloride	ND		ug/kg	240	82.	1
1,2-Dichloropropane	ND		ug/kg	840	54.	1
Dibromochloromethane	ND		ug/kg	240	42.	1
1,1,2-Trichloroethane	ND		ug/kg	360	75.	1
Tetrachloroethene	ND		ug/kg	240	72.	1
Chlorobenzene	9800		ug/kg	240	83.	1
Trichlorofluoromethane	ND		ug/kg	1200	100	1
1,2-Dichloroethane	ND		ug/kg	240	59.	1
1,1,1-Trichloroethane	ND		ug/kg	240	84.	1
Bromodichloromethane	ND		ug/kg	240	74.	1
trans-1,3-Dichloropropene	ND		ug/kg	240	50.	1
cis-1,3-Dichloropropene	ND		ug/kg	240	55.	1
1,1-Dichloropropene	ND		ug/kg	1200	78.	1
Bromoform	ND		ug/kg	960	57.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	240	71.	1
Benzene	510		ug/kg	240	46.	1
Toluene	11000		ug/kg	360	47.	1
Ethylbenzene	120	J	ug/kg	240	41.	1
Vinyl chloride	ND		ug/kg	480	75.	1
Chloroethane	ND		ug/kg	480	76.	1
1,1-Dichloroethene	ND		ug/kg	240	89.	1
trans-1,2-Dichloroethene	ND		ug/kg	360	58.	1
Trichloroethene	ND		ug/kg	240	72.	1
1,2-Dichlorobenzene	ND		ug/kg	1200	44.	1
1,3-Dichlorobenzene	ND		ug/kg	1200	52.	1
1,4-Dichlorobenzene	700	J	ug/kg	1200	44.	1
Methyl tert butyl ether	ND		ug/kg	480	36.	1



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSDOT 06/14/2022 Page 12156

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-14

Date Collected: 08/10/17 12:25

Client ID: 12ST

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	130	J	ug/kg	480	84.	1
o-Xylene	ND		ug/kg	480	81.	1
cis-1,2-Dichloroethene	ND		ug/kg	240	82.	1
Dibromomethane	ND		ug/kg	2400	57.	1
Styrene	ND		ug/kg	480	96.	1
Dichlorodifluoromethane	ND		ug/kg	2400	120	1
Acetone	2900		ug/kg	2400	550	1
2-Butanone	1200	J	ug/kg	2400	160	1
4-Methyl-2-pentanone	ND		ug/kg	2400	58.	1
1,2,3-Trichloropropane	ND		ug/kg	2400	42.	1
Bromochloromethane	ND		ug/kg	1200	85.	1
2,2-Dichloropropane	ND		ug/kg	1200	110	1
1,2-Dibromoethane	ND		ug/kg	960	48.	1
1,3-Dichloropropane	ND		ug/kg	1200	44.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	240	76.	1
Bromobenzene	ND		ug/kg	1200	52.	1
n-Butylbenzene	240		ug/kg	240	54.	1
sec-Butylbenzene	160	J	ug/kg	240	52.	1
tert-Butylbenzene	ND		ug/kg	1200	59.	1
o-Chlorotoluene	ND		ug/kg	1200	53.	1
p-Chlorotoluene	ND		ug/kg	1200	44.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1200	95.	1
Hexachlorobutadiene	ND		ug/kg	1200	83.	1
Isopropylbenzene	ND		ug/kg	240	46.	1
p-Isopropyltoluene	570		ug/kg	240	48.	1
Naphthalene	1200		ug/kg	1200	33.	1
n-Propylbenzene	150	J	ug/kg	240	51.	1
1,2,3-Trichlorobenzene	ND		ug/kg	1200	60.	1
1,2,4-Trichlorobenzene	ND		ug/kg	1200	51.	1
1,3,5-Trimethylbenzene	350	J	ug/kg	1200	38.	1
1,2,4-Trimethylbenzene	1100	J	ug/kg	1200	44.	1
Freon-113	ND		ug/kg	4800	120	1
p-Diethylbenzene	ND		ug/kg	960	960	1
p-Ethyltoluene	530	J	ug/kg	960	56.	1
1,2,4,5-Tetramethylbenzene	190	J	ug/kg	960	37.	1



Project Name: 48 GCA1702

Lab Number: 12151

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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-14
Client ID: 12ST
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 12:25
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	109		70-130



Project Name: 48 GCA1702

Lab Number: 12192

RECEIVED NYS OFFICE 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-18
 Client ID: 13ST
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 13:15
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/17 11:35
 Analyst: MV
 Percent Solids: 17%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5500	900	1
1,1-Dichloroethane	ND		ug/kg	820	150	1
Chloroform	ND		ug/kg	820	200	1
Carbon tetrachloride	ND		ug/kg	550	190	1
1,2-Dichloropropane	ND		ug/kg	1900	120	1
Dibromochloromethane	ND		ug/kg	550	96.	1
1,1,2-Trichloroethane	ND		ug/kg	820	170	1
Tetrachloroethene	ND		ug/kg	550	160	1
Chlorobenzene	ND		ug/kg	550	190	1
Trichlorofluoromethane	ND		ug/kg	2700	230	1
1,2-Dichloroethane	ND		ug/kg	550	140	1
1,1,1-Trichloroethane	ND		ug/kg	550	190	1
Bromodichloromethane	ND		ug/kg	550	170	1
trans-1,3-Dichloropropene	ND		ug/kg	550	110	1
cis-1,3-Dichloropropene	ND		ug/kg	550	130	1
1,1-Dichloropropene	ND		ug/kg	2700	180	1
Bromoform	ND		ug/kg	2200	130	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	550	160	1
Benzene	ND		ug/kg	550	100	1
Toluene	59000		ug/kg	820	110	1
Ethylbenzene	ND		ug/kg	550	93.	1
Vinyl chloride	ND		ug/kg	1100	170	1
Chloroethane	ND		ug/kg	1100	170	1
1,1-Dichloroethene	ND		ug/kg	550	200	1
trans-1,2-Dichloroethene	ND		ug/kg	820	130	1
Trichloroethene	ND		ug/kg	550	160	1
1,2-Dichlorobenzene	ND		ug/kg	2700	100	1
1,3-Dichlorobenzene	ND		ug/kg	2700	120	1
1,4-Dichlorobenzene	ND		ug/kg	2700	100	1
Methyl tert butyl ether	ND		ug/kg	1100	84.	1



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF No: 06/14/2022
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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-18
Client ID: 13ST
Sample Location: FLOWER FIELDS, ST. JAMESDate Collected: 08/10/17 13:15
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	1100	190	1
o-Xylene	ND		ug/kg	1100	180	1
cis-1,2-Dichloroethene	ND		ug/kg	550	190	1
Dibromomethane	ND		ug/kg	5500	130	1
Styrene	ND		ug/kg	1100	220	1
Dichlorodifluoromethane	ND		ug/kg	5500	270	1
Acetone	9700		ug/kg	5500	1200	1
2-Butanone	4000	J	ug/kg	5500	380	1
4-Methyl-2-pentanone	ND		ug/kg	5500	130	1
1,2,3-Trichloropropane	ND		ug/kg	5500	97.	1
Bromochloromethane	ND		ug/kg	2700	200	1
2,2-Dichloropropane	ND		ug/kg	2700	250	1
1,2-Dibromoethane	ND		ug/kg	2200	110	1
1,3-Dichloropropane	ND		ug/kg	2700	100	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	550	170	1
Bromobenzene	ND		ug/kg	2700	120	1
n-Butylbenzene	ND		ug/kg	550	120	1
sec-Butylbenzene	ND		ug/kg	550	120	1
tert-Butylbenzene	ND		ug/kg	2700	140	1
o-Chlorotoluene	ND		ug/kg	2700	120	1
p-Chlorotoluene	ND		ug/kg	2700	100	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2700	220	1
Hexachlorobutadiene	ND		ug/kg	2700	190	1
Isopropylbenzene	ND		ug/kg	550	110	1
p-Isopropyltoluene	2500		ug/kg	550	110	1
Naphthalene	ND		ug/kg	2700	76.	1
n-Propylbenzene	ND		ug/kg	550	120	1
1,2,3-Trichlorobenzene	ND		ug/kg	2700	140	1
1,2,4-Trichlorobenzene	ND		ug/kg	2700	120	1
1,3,5-Trimethylbenzene	ND		ug/kg	2700	88.	1
1,2,4-Trimethylbenzene	ND		ug/kg	2700	100	1
Freon-113	ND		ug/kg	11000	280	1
p-Diethylbenzene	ND		ug/kg	2200	2200	1
p-Ethyltoluene	ND		ug/kg	2200	130	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2200	86.	1

NYSCEF DOC NO: 48 Project Name: GCA1702

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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-18
Client ID: 13ST
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 13:15
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	109		70-130



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: RECEIVED NYSCEF No: 06/14/2022 Page 121/135

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-19
 Client ID: 13PLP
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 13:20
 Date Received: 08/10/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/17 01:52
 Analyst: MV
 Percent Solids: 32%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	2800	460	1
1,1-Dichloroethane	ND		ug/kg	420	76.	1
Chloroform	ND		ug/kg	420	100	1
Carbon tetrachloride	ND		ug/kg	280	97.	1
1,2-Dichloropropane	ND		ug/kg	990	64.	1
Dibromochloromethane	ND		ug/kg	280	50.	1
1,1,2-Trichloroethane	ND		ug/kg	420	88.	1
Tetrachloroethene	ND		ug/kg	280	85.	1
Chlorobenzene	ND		ug/kg	280	98.	1
Trichlorofluoromethane	ND		ug/kg	1400	120	1
1,2-Dichloroethane	ND		ug/kg	280	69.	1
1,1,1-Trichloroethane	ND		ug/kg	280	99.	1
Bromodichloromethane	ND		ug/kg	280	87.	1
trans-1,3-Dichloropropene	ND		ug/kg	280	59.	1
cis-1,3-Dichloropropene	ND		ug/kg	280	65.	1
1,1-Dichloropropene	ND		ug/kg	1400	92.	1
Bromoform	ND		ug/kg	1100	67.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	280	84.	1
Benzene	ND		ug/kg	280	54.	1
Toluene	32000		ug/kg	420	55.	1
Ethylbenzene	ND		ug/kg	280	48.	1
Vinyl chloride	ND		ug/kg	560	89.	1
Chloroethane	ND		ug/kg	560	89.	1
1,1-Dichloroethene	ND		ug/kg	280	100	1
trans-1,2-Dichloroethene	ND		ug/kg	420	68.	1
Trichloroethene	ND		ug/kg	280	85.	1
1,2-Dichlorobenzene	ND		ug/kg	1400	51.	1
1,3-Dichlorobenzene	ND		ug/kg	1400	61.	1
1,4-Dichlorobenzene	160	J	ug/kg	1400	51.	1
Methyl tert butyl ether	ND		ug/kg	560	43.	1



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSDOT 06/14/2022 Page 12156

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-19

Date Collected: 08/10/17 13:20

Client ID: 13PLP

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	560	99.	1
o-Xylene	ND		ug/kg	560	95.	1
cis-1,2-Dichloroethene	ND		ug/kg	280	96.	1
Dibromomethane	ND		ug/kg	2800	67.	1
Styrene	ND		ug/kg	560	110	1
Dichlorodifluoromethane	ND		ug/kg	2800	140	1
Acetone	3800		ug/kg	2800	640	1
2-Butanone	ND		ug/kg	2800	190	1
4-Methyl-2-pentanone	ND		ug/kg	2800	69.	1
1,2,3-Trichloropropane	ND		ug/kg	2800	50.	1
Bromochloromethane	ND		ug/kg	1400	100	1
2,2-Dichloropropane	ND		ug/kg	1400	130	1
1,2-Dibromoethane	ND		ug/kg	1100	56.	1
1,3-Dichloropropane	ND		ug/kg	1400	52.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	280	90.	1
Bromobenzene	ND		ug/kg	1400	62.	1
n-Butylbenzene	ND		ug/kg	280	64.	1
sec-Butylbenzene	ND		ug/kg	280	61.	1
tert-Butylbenzene	ND		ug/kg	1400	70.	1
o-Chlorotoluene	ND		ug/kg	1400	62.	1
p-Chlorotoluene	ND		ug/kg	1400	52.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1400	110	1
Hexachlorobutadiene	ND		ug/kg	1400	98.	1
Isopropylbenzene	ND		ug/kg	280	55.	1
p-Isopropyltoluene	600		ug/kg	280	57.	1
Naphthalene	ND		ug/kg	1400	39.	1
n-Propylbenzene	ND		ug/kg	280	60.	1
1,2,3-Trichlorobenzene	ND		ug/kg	1400	71.	1
1,2,4-Trichlorobenzene	ND		ug/kg	1400	60.	1
1,3,5-Trimethylbenzene	ND		ug/kg	1400	45.	1
1,2,4-Trimethylbenzene	ND		ug/kg	1400	52.	1
Freon-113	ND		ug/kg	5600	140	1
p-Diethylbenzene	ND		ug/kg	1100	1100	1
p-Ethyltoluene	ND		ug/kg	1100	66.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1100	44.	1

Project Name: 48 GCA1702

Lab Number: 127097

RECEIVED NYSCEF: 06/14/2022 Page 12 of 157

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-19
Client ID: 13PLP
Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 13:20
Date Received: 08/10/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	109		70-130



Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/15/17 21:04
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,09,12-14,19 Batch: WG1032342-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/15/17 21:04
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,09,12-14,19 Batch: WG1032342-5					
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
2-Butanone	ND		ug/kg	500	34.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.

NYSCEF DOC. NO. 48

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 08/15/17 21:04
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,09,12-14,19 Batch: WG1032342-5					
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
Freon-113	ND		ug/kg	1000	26.
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	110		70-130

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/16/17 09:24
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04,08,18 Batch: WG1032499-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1



Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/16/17 09:24
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04,08,18 Batch: WG1032499-5					
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
2-Butanone	ND		ug/kg	500	34.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/16/17 09:24
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 03-04,08,18 Batch: WG1032499-5					
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
Freon-113	ND		ug/kg	1000	26.
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	110		70-130



Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/16/17 22:10
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1032757-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18



Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/16/17 22:10
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1032757-5					
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25



NYSCEF DOC. NO. 48

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 08/16/17 22:10
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1032757-5					
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16

Tentatively Identified Compounds

Total TIC Compounds	10.4	J	ug/kg
Unknown	5.01	J	ug/kg
Unknown	2.57	J	ug/kg
Unknown	2.84	J	ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130



Lab Control Sample Analysis
Batch Quality Control

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,09,12-14,19 Batch: WG1032342-3 WG1032342-4								
Methylene chloride	82		81		70-130	1		30
1,1-Dichloroethane	92		91		70-130	1		30
Chloroform	93		91		70-130	2		30
Carbon tetrachloride	105		104		70-130	1		30
1,2-Dichloropropane	84		85		70-130	1		30
Dibromochloromethane	98		98		70-130	0		30
1,1,2-Trichloroethane	86		84		70-130	2		30
Tetrachloroethene	93		91		70-130	2		30
Chlorobenzene	87		88		70-130	1		30
Trichlorofluoromethane	92		91		70-139	1		30
1,2-Dichloroethane	97		99		70-130	2		30
1,1,1-Trichloroethane	100		99		70-130	1		30
Bromodichloromethane	95		93		70-130	2		30
trans-1,3-Dichloropropene	98		97		70-130	1		30
cis-1,3-Dichloropropene	82		82		70-130	0		30
1,1-Dichloropropene	86		85		70-130	1		30
Bromoform	98		97		70-130	1		30
1,1,2,2-Tetrachloroethane	83		82		70-130	1		30
Benzene	79		78		70-130	1		30
Toluene	84		84		70-130	0		30
Ethylbenzene	87		85		70-130	2		30
Vinyl chloride	77		74		67-130	4		30
Chloroethane	68		64		50-151	6		30



Lab Control Sample Analysis
Batch Quality Control

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,09,12-14,19 Batch: WG1032342-3 WG1032342-4								
1,1-Dichloroethene	81		80		65-135	1		30
trans-1,2-Dichloroethene	82		79		70-130	4		30
Trichloroethene	83		82		70-130	1		30
1,2-Dichlorobenzene	90		89		70-130	1		30
1,3-Dichlorobenzene	91		90		70-130	1		30
1,4-Dichlorobenzene	90		90		70-130	0		30
Methyl tert butyl ether	86		86		66-130	0		30
p/m-Xylene	87		87		70-130	0		30
o-Xylene	83		83		70-130	0		30
cis-1,2-Dichloroethene	82		82		70-130	0		30
Dibromomethane	85		87		70-130	2		30
Styrene	87		87		70-130	0		30
Dichlorodifluoromethane	80		79		30-146	1		30
Acetone	113		104		54-140	8		30
2-Butanone	94		97		70-130	3		30
4-Methyl-2-pentanone	95		92		70-130	3		30
1,2,3-Trichloropropane	86		88		68-130	2		30
Bromochloromethane	85		84		70-130	1		30
2,2-Dichloropropane	97		96		70-130	1		30
1,2-Dibromoethane	87		87		70-130	0		30
1,3-Dichloropropane	88		87		69-130	1		30
1,1,1,2-Tetrachloroethane	98		98		70-130	0		30
Bromobenzene	89		87		70-130	2		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,09,12-14,19 Batch: WG1032342-3 WG1032342-4								
n-Butylbenzene	92		91		70-130	1		30
sec-Butylbenzene	89		88		70-130	1		30
tert-Butylbenzene	92		91		70-130	1		30
o-Chlorotoluene	92		90		70-130	2		30
p-Chlorotoluene	94		93		70-130	1		30
1,2-Dibromo-3-chloropropane	91		95		68-130	4		30
Hexachlorobutadiene	100		98		67-130	2		30
Isopropylbenzene	90		89		70-130	1		30
p-Isopropyltoluene	91		90		70-130	1		30
Naphthalene	83		85		70-130	2		30
n-Propylbenzene	91		90		70-130	1		30
1,2,3-Trichlorobenzene	90		91		70-130	1		30
1,2,4-Trichlorobenzene	91		90		70-130	1		30
1,3,5-Trimethylbenzene	93		92		70-130	1		30
1,2,4-Trimethylbenzene	95		94		70-130	1		30
Freon-113	90		88		50-139	2		30
p-Diethylbenzene	88		87		70-130	1		30
p-Ethyltoluene	90		88		70-130	2		30
1,2,4,5-Tetramethylbenzene	91		89		70-130	2		30



Lab Control Sample Analysis
Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,09,12-14,19 Batch: WG1032342-3 WG1032342-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		121		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	107		104		70-130
Dibromofluoromethane	105		108		70-130



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04,08,18 Batch: WG1032499-3 WG1032499-4								
Methylene chloride	88		78		70-130	12		30
1,1-Dichloroethane	101		92		70-130	9		30
Chloroform	101		95		70-130	6		30
Carbon tetrachloride	119		111		70-130	7		30
1,2-Dichloropropane	93		87		70-130	7		30
Dibromochloromethane	105		103		70-130	2		30
1,1,2-Trichloroethane	92		89		70-130	3		30
Tetrachloroethene	101		95		70-130	6		30
Chlorobenzene	96		93		70-130	3		30
Trichlorofluoromethane	102		93		70-139	9		30
1,2-Dichloroethane	107		104		70-130	3		30
1,1,1-Trichloroethane	112		106		70-130	6		30
Bromodichloromethane	103		98		70-130	5		30
trans-1,3-Dichloropropene	104		101		70-130	3		30
cis-1,3-Dichloropropene	91		86		70-130	6		30
1,1-Dichloropropene	95		89		70-130	7		30
Bromoform	105		101		70-130	4		30
1,1,2,2-Tetrachloroethane	86		85		70-130	1		30
Benzene	87		82		70-130	6		30
Toluene	92		89		70-130	3		30
Ethylbenzene	96		92		70-130	4		30
Vinyl chloride	80		75		67-130	6		30
Chloroethane	68		68		50-151	0		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04,08,18 Batch: WG1032499-3 WG1032499-4								
1,1-Dichloroethene	88		78		65-135	12		30
trans-1,2-Dichloroethene	91		82		70-130	10		30
Trichloroethene	94		89		70-130	5		30
1,2-Dichlorobenzene	99		97		70-130	2		30
1,3-Dichlorobenzene	100		96		70-130	4		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	94		88		66-130	7		30
p/m-Xylene	96		93		70-130	3		30
o-Xylene	92		90		70-130	2		30
cis-1,2-Dichloroethene	92		88		70-130	4		30
Dibromomethane	95		89		70-130	7		30
Styrene	94		92		70-130	2		30
Dichlorodifluoromethane	86		81		30-146	6		30
Acetone	115		98		54-140	16		30
2-Butanone	102		96		70-130	6		30
4-Methyl-2-pentanone	96		92		70-130	4		30
1,2,3-Trichloropropane	94		94		68-130	0		30
Bromochloromethane	91		87		70-130	4		30
2,2-Dichloropropane	108		102		70-130	6		30
1,2-Dibromoethane	94		91		70-130	3		30
1,3-Dichloropropane	93		89		69-130	4		30
1,1,1,2-Tetrachloroethane	108		103		70-130	5		30
Bromobenzene	95		93		70-130	2		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04,08,18 Batch: WG1032499-3 WG1032499-4								
n-Butylbenzene	102		97		70-130	5		30
sec-Butylbenzene	98		93		70-130	5		30
tert-Butylbenzene	103		99		70-130	4		30
o-Chlorotoluene	99		99		70-130	0		30
p-Chlorotoluene	104		101		70-130	3		30
1,2-Dibromo-3-chloropropane	100		95		68-130	5		30
Hexachlorobutadiene	109		104		67-130	5		30
Isopropylbenzene	101		98		70-130	3		30
p-Isopropyltoluene	103		99		70-130	4		30
Naphthalene	96		92		70-130	4		30
n-Propylbenzene	100		97		70-130	3		30
1,2,3-Trichlorobenzene	100		96		70-130	4		30
1,2,4-Trichlorobenzene	101		98		70-130	3		30
1,3,5-Trimethylbenzene	104		100		70-130	4		30
1,2,4-Trimethylbenzene	106		104		70-130	2		30
Freon-113	95		84		50-139	12		30
p-Diethylbenzene	100		96		70-130	4		30
p-Ethyltoluene	100		97		70-130	3		30
1,2,4,5-Tetramethylbenzene	102		98		70-130	4		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 03-04,08,18 Batch: WG1032499-3 WG1032499-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	124		118		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	105		106		70-130
Dibromofluoromethane	109		106		70-130



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1032757-3 WG1032757-4								
Methylene chloride	88		86		70-130	2		30
1,1-Dichloroethane	101		101		70-130	0		30
Chloroform	100		102		70-130	2		30
Carbon tetrachloride	117		117		70-130	0		30
1,2-Dichloropropane	94		94		70-130	0		30
Dibromochloromethane	105		107		70-130	2		30
1,1,2-Trichloroethane	93		94		70-130	1		30
Tetrachloroethene	105		104		70-130	1		30
Chlorobenzene	100		100		70-130	0		30
Trichlorofluoromethane	97		95		70-139	2		30
1,2-Dichloroethane	105		104		70-130	1		30
1,1,1-Trichloroethane	111		110		70-130	1		30
Bromodichloromethane	102		102		70-130	0		30
trans-1,3-Dichloropropene	108		109		70-130	1		30
cis-1,3-Dichloropropene	93		93		70-130	0		30
1,1-Dichloropropene	98		98		70-130	0		30
Bromoform	105		108		70-130	3		30
1,1,2,2-Tetrachloroethane	90		93		70-130	3		30
Benzene	89		90		70-130	1		30
Toluene	97		96		70-130	1		30
Ethylbenzene	101		100		70-130	1		30
Vinyl chloride	78		73		67-130	7		30
Chloroethane	69		66		50-151	4		30



Lab Control Sample Analysis

Batch Quality Control

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1032757-3 WG1032757-4								
1,1-Dichloroethene	87		89		65-135	2		30
trans-1,2-Dichloroethene	92		93		70-130	1		30
Trichloroethene	95		96		70-130	1		30
1,2-Dichlorobenzene	101		103		70-130	2		30
1,3-Dichlorobenzene	102		102		70-130	0		30
1,4-Dichlorobenzene	102		103		70-130	1		30
Methyl tert butyl ether	96		97		66-130	1		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	95		96		70-130	1		30
cis-1,2-Dichloroethene	94		93		70-130	1		30
Dibromomethane	94		94		70-130	0		30
Styrene	97		97		70-130	0		30
Dichlorodifluoromethane	88		88		30-146	0		30
Acetone	114		103		54-140	10		30
2-Butanone	100		104		70-130	4		30
4-Methyl-2-pentanone	105		104		70-130	1		30
1,2,3-Trichloropropane	97		100		68-130	3		30
Bromochloromethane	92		92		70-130	0		30
2,2-Dichloropropane	109		108		70-130	1		30
1,2-Dibromoethane	96		97		70-130	1		30
1,3-Dichloropropane	97		98		69-130	1		30
1,1,1,2-Tetrachloroethane	109		107		70-130	2		30
Bromobenzene	100		101		70-130	1		30

Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1032757-3 WG1032757-4								
n-Butylbenzene	104		104		70-130	0		30
sec-Butylbenzene	102		102		70-130	0		30
tert-Butylbenzene	108		109		70-130	1		30
o-Chlorotoluene	104		103		70-130	1		30
p-Chlorotoluene	107		109		70-130	2		30
1,2-Dibromo-3-chloropropane	101		108		68-130	7		30
Hexachlorobutadiene	118		119		67-130	1		30
Isopropylbenzene	105		106		70-130	1		30
p-Isopropyltoluene	106		107		70-130	1		30
Naphthalene	98		102		70-130	4		30
n-Propylbenzene	105		105		70-130	0		30
1,2,3-Trichlorobenzene	104		105		70-130	1		30
1,2,4-Trichlorobenzene	105		107		70-130	2		30
1,3,5-Trimethylbenzene	108		108		70-130	0		30
1,2,4-Trimethylbenzene	110		110		70-130	0		30
Freon-113	96		93		50-139	3		30
p-Diethylbenzene	104		104		70-130	0		30
p-Ethyltoluene	104		105		70-130	1		30
1,2,4,5-Tetramethylbenzene	108		108		70-130	0		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1032757-3 WG1032757-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		115		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	107		106		70-130
Dibromofluoromethane	103		104		70-130



SEMIVOLATILES



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: 1709

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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-01
 Client ID: 7ST
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 08:45
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:09

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/14/17 20:00
 Analyst: SZ
 Percent Solids: 20%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	630	82.	1
Fluoranthene	210	J	ug/kg	480	91.	1
Benzo(a)anthracene	110	J	ug/kg	480	89.	1
Benzo(a)pyrene	ND		ug/kg	630	190	1
Benzo(b)fluoranthene	130	J	ug/kg	480	130	1
Benzo(k)fluoranthene	ND		ug/kg	480	130	1
Chrysene	96	J	ug/kg	480	82.	1
Anthracene	ND		ug/kg	480	150	1
Benzo(ghi)perylene	ND		ug/kg	630	93.	1
Fluorene	ND		ug/kg	790	77.	1
Phenanthrene	140	J	ug/kg	480	96.	1
Dibenzo(a,h)anthracene	ND		ug/kg	480	92.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	630	110	1
Pyrene	170	J	ug/kg	480	79.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	56		30-120
4-Terphenyl-d14	53		18-120



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Lab Number: 1181 RECEIVED NYSCEF: 06/14/2022 Page 12 of 181

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-02
 Client ID: 7PLP
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:00
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:09

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/14/17 20:26
 Analyst: SZ
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Fluoranthene	ND		ug/kg	120	23.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	96		30-120
4-Terphenyl-d14	98		18-120



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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-03
 Client ID: 9ST
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:25
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:09

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/14/17 23:05
 Analyst: CB
 Percent Solids: 12%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	1100	140	1
Fluoranthene	ND		ug/kg	840	160	1
Benzo(a)anthracene	ND		ug/kg	840	160	1
Benzo(a)pyrene	ND		ug/kg	1100	340	1
Benzo(b)fluoranthene	ND		ug/kg	840	240	1
Benzo(k)fluoranthene	ND		ug/kg	840	220	1
Chrysene	ND		ug/kg	840	140	1
Anthracene	ND		ug/kg	840	270	1
Benzo(ghi)perylene	ND		ug/kg	1100	160	1
Fluorene	ND		ug/kg	1400	140	1
Phenanthrene	ND		ug/kg	840	170	1
Dibenzo(a,h)anthracene	ND		ug/kg	840	160	1
Indeno(1,2,3-cd)pyrene	240	J	ug/kg	1100	200	1
Pyrene	ND		ug/kg	840	140	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	61		30-120
4-Terphenyl-d14	61		18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

RECEIVED NYSCEF No: 06/14/2022 Lab Number: Page 12183

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-04
 Client ID: 9SLPC
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:30
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:09

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/14/17 23:31
 Analyst: CB
 Percent Solids: 24%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	540	70.	1
Fluoranthene	79	J	ug/kg	400	77.	1
Benzo(a)anthracene	ND		ug/kg	400	76.	1
Benzo(a)pyrene	ND		ug/kg	540	160	1
Benzo(b)fluoranthene	ND		ug/kg	400	110	1
Benzo(k)fluoranthene	ND		ug/kg	400	110	1
Chrysene	ND		ug/kg	400	70.	1
Anthracene	ND		ug/kg	400	130	1
Benzo(ghi)perylene	ND		ug/kg	540	79.	1
Fluorene	ND		ug/kg	670	65.	1
Phenanthrene	ND		ug/kg	400	82.	1
Dibenzo(a,h)anthracene	ND		ug/kg	400	78.	1
Indeno(1,2,3-cd)pyrene	200	J	ug/kg	540	94.	1
Pyrene	ND		ug/kg	400	67.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	33		30-120
4-Terphenyl-d14	21		18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

RECEIVED NYSCEF: 06/14/2022 Lab Number: Page 1 of 84

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-05 D
 Client ID: 9PLP
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 09:40
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:09

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/17 02:28
 Analyst: CB
 Percent Solids: 41%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	13000	1700	40
Fluoranthene	ND		ug/kg	9700	1800	40
Benzo(a)anthracene	ND		ug/kg	9700	1800	40
Benzo(a)pyrene	ND		ug/kg	13000	3900	40
Benzo(b)fluoranthene	ND		ug/kg	9700	2700	40
Benzo(k)fluoranthene	ND		ug/kg	9700	2600	40
Chrysene	ND		ug/kg	9700	1700	40
Anthracene	ND		ug/kg	9700	3100	40
Benzo(ghi)perylene	ND		ug/kg	13000	1900	40
Fluorene	ND		ug/kg	16000	1600	40
Phenanthrene	ND		ug/kg	9700	2000	40
Dibenzo(a,h)anthracene	ND		ug/kg	9700	1900	40
Indeno(1,2,3-cd)pyrene	ND		ug/kg	13000	2200	40
Pyrene	ND		ug/kg	9700	1600	40

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
4-Terphenyl-d14	0	Q	18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: 1185 RECEIVED NYSCEF: 06/14/2022 Page 1 of 85

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-08
 Client ID: 10ST
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 10:35
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:09

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/14/17 23:56
 Analyst: CB
 Percent Solids: 9%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	1400	180	1
Fluoranthene	ND		ug/kg	1000	200	1
Benzo(a)anthracene	ND		ug/kg	1000	200	1
Benzo(a)pyrene	ND		ug/kg	1400	430	1
Benzo(b)fluoranthene	ND		ug/kg	1000	290	1
Benzo(k)fluoranthene	ND		ug/kg	1000	280	1
Chrysene	ND		ug/kg	1000	180	1
Anthracene	ND		ug/kg	1000	340	1
Benzo(ghi)perylene	ND		ug/kg	1400	200	1
Fluorene	ND		ug/kg	1800	170	1
Phenanthrene	ND		ug/kg	1000	210	1
Dibenzo(a,h)anthracene	ND		ug/kg	1000	200	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	1400	240	1
Pyrene	ND		ug/kg	1000	170	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	69		30-120
4-Terphenyl-d14	71		18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: 108251709 RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-09
 Client ID: 10SLPA
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 10:40
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:09

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/17 02:53
 Analyst: CB
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Fluoranthene	74	J	ug/kg	130	25.	1
Benzo(a)anthracene	36	J	ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	60	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	41	J	ug/kg	130	22.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	26	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	49	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	58	J	ug/kg	170	30.	1
Pyrene	56	J	ug/kg	130	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	26		23-120
2-Fluorobiphenyl	24	Q	30-120
4-Terphenyl-d14	25		18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-12
 Client ID: MH1
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 12:10
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:10

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/17 03:19
 Analyst: CB
 Percent Solids: 31%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	420	54.	1
Fluoranthene	930		ug/kg	310	60.	1
Benzo(a)anthracene	340		ug/kg	310	59.	1
Benzo(a)pyrene	210	J	ug/kg	420	130	1
Benzo(b)fluoranthene	340		ug/kg	310	88.	1
Benzo(k)fluoranthene	100	J	ug/kg	310	84.	1
Chrysene	350		ug/kg	310	54.	1
Anthracene	200	J	ug/kg	310	100	1
Benzo(ghi)perylene	170	J	ug/kg	420	62.	1
Fluorene	320	J	ug/kg	520	51.	1
Phenanthrene	1100		ug/kg	310	64.	1
Dibenzo(a,h)anthracene	150	J	ug/kg	310	60.	1
Indeno(1,2,3-cd)pyrene	580		ug/kg	420	73.	1
Pyrene	880		ug/kg	310	52.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	30		30-120
4-Terphenyl-d14	31		18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-13 D
 Client ID: 12PLP
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 12:15
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:10

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/17 02:03
 Analyst: CB
 Percent Solids: 19%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	96000	12000	140
Fluoranthene	ND		ug/kg	72000	14000	140
Benzo(a)anthracene	ND		ug/kg	72000	14000	140
Benzo(a)pyrene	ND		ug/kg	96000	29000	140
Benzo(b)fluoranthene	ND		ug/kg	72000	20000	140
Benzo(k)fluoranthene	ND		ug/kg	72000	19000	140
Chrysene	ND		ug/kg	72000	12000	140
Anthracene	ND		ug/kg	72000	24000	140
Benzo(ghi)perylene	ND		ug/kg	96000	14000	140
Fluorene	ND		ug/kg	120000	12000	140
Phenanthrene	ND		ug/kg	72000	15000	140
Dibenzo(a,h)anthracene	ND		ug/kg	72000	14000	140
Indeno(1,2,3-cd)pyrene	ND		ug/kg	96000	17000	140
Pyrene	ND		ug/kg	72000	12000	140

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
4-Terphenyl-d14	0	Q	18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: RECEIVED NYSCEF Doc 06/14/2022 Page 12189

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-14
 Client ID: 12ST
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 12:25
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:10

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/17 03:44
 Analyst: CB
 Percent Solids: 32%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	290	J	ug/kg	410	53.	1
Fluoranthene	610		ug/kg	310	59.	1
Benzo(a)anthracene	290	J	ug/kg	310	58.	1
Benzo(a)pyrene	270	J	ug/kg	410	120	1
Benzo(b)fluoranthene	360		ug/kg	310	86.	1
Benzo(k)fluoranthene	130	J	ug/kg	310	82.	1
Chrysene	250	J	ug/kg	310	53.	1
Anthracene	120	J	ug/kg	310	100	1
Benzo(ghi)perylene	160	J	ug/kg	410	60.	1
Fluorene	200	J	ug/kg	510	50.	1
Phenanthrene	460		ug/kg	310	62.	1
Dibenzo(a,h)anthracene	ND		ug/kg	310	59.	1
Indeno(1,2,3-cd)pyrene	230	J	ug/kg	410	72.	1
Pyrene	470		ug/kg	310	51.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	52		30-120
4-Terphenyl-d14	58		18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-18 D
 Client ID: 13ST
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 13:15
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:10

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/17 01:12
 Analyst: CB
 Percent Solids: 17%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	79000	10000	100
Fluoranthene	ND		ug/kg	59000	11000	100
Benzo(a)anthracene	ND		ug/kg	59000	11000	100
Benzo(a)pyrene	ND		ug/kg	79000	24000	100
Benzo(b)fluoranthene	ND		ug/kg	59000	16000	100
Benzo(k)fluoranthene	ND		ug/kg	59000	16000	100
Chrysene	ND		ug/kg	59000	10000	100
Anthracene	ND		ug/kg	59000	19000	100
Benzo(ghi)perylene	ND		ug/kg	79000	12000	100
Fluorene	ND		ug/kg	98000	9600	100
Phenanthrene	ND		ug/kg	59000	12000	100
Dibenzo(a,h)anthracene	ND		ug/kg	59000	11000	100
Indeno(1,2,3-cd)pyrene	ND		ug/kg	79000	14000	100
Pyrene	ND		ug/kg	59000	9800	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
4-Terphenyl-d14	0	Q	18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

RECEIVED NYSCEF: 06/14/2022 Lab Number: Page 12 of 19

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-19 D
 Client ID: 13PLP
 Sample Location: FLOWER FIELDS, ST. JAMES

Date Collected: 08/10/17 13:20
 Date Received: 08/10/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:10

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/17 01:37
 Analyst: CB
 Percent Solids: 32%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	120000	16000	300
Fluoranthene	ND		ug/kg	92000	18000	300
Benzo(a)anthracene	ND		ug/kg	92000	17000	300
Benzo(a)pyrene	ND		ug/kg	120000	37000	300
Benzo(b)fluoranthene	ND		ug/kg	92000	26000	300
Benzo(k)fluoranthene	ND		ug/kg	92000	24000	300
Chrysene	ND		ug/kg	92000	16000	300
Anthracene	ND		ug/kg	92000	30000	300
Benzo(ghi)perylene	ND		ug/kg	120000	18000	300
Fluorene	ND		ug/kg	150000	15000	300
Phenanthrene	ND		ug/kg	92000	19000	300
Dibenzo(a,h)anthracene	ND		ug/kg	92000	18000	300
Indeno(1,2,3-cd)pyrene	ND		ug/kg	120000	21000	300
Pyrene	ND		ug/kg	92000	15000	300

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
4-Terphenyl-d14	0	Q	18-120



Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 08/14/17 12:35
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 08/12/17 06:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,08-09,12-14,18-19 Batch: WG1031365-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	99	19.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 08/14/17 12:35
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 08/12/17 06:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,08-09,12-14,18-19 Batch: WG1031365-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	99		30-120
2,4,6-Tribromophenol	104		10-136
4-Terphenyl-d14	106		18-120



Lab Control Sample Analysis
Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,08-09,12-14,18-19 Batch: WG1031365-2 WG1031365-3								
Acenaphthene	107		86		31-137	22		50
Fluoranthene	113		88		40-140	25		50
Benzo(a)anthracene	101		82		40-140	21		50
Benzo(a)pyrene	112		89		40-140	23		50
Benzo(b)fluoranthene	109		85		40-140	25		50
Benzo(k)fluoranthene	105		87		40-140	19		50
Chrysene	98		80		40-140	20		50
Anthracene	111		88		40-140	23		50
Benzo(ghi)perylene	108		88		40-140	20		50
Fluorene	115		91		40-140	23		50
Phenanthrene	104		84		40-140	21		50
Dibenzo(a,h)anthracene	110		89		40-140	21		50
Indeno(1,2,3-cd)pyrene	111		89		40-140	22		50
Pyrene	112		88		35-142	24		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	92		74		25-120
Phenol-d6	96		76		10-120
Nitrobenzene-d5	95		75		23-120
2-Fluorobiphenyl	97		76		30-120
2,4,6-Tribromophenol	117		91		10-136
4-Terphenyl-d14	105		81		18-120



METALS



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982196

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-01

Date Collected: 08/10/17 08:45

Client ID: 7ST

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 20%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	3.66		mg/kg	1.88	0.391	1	08/11/17 19:25	08/15/17 19:32	EPA 3050B	1,6010C	PS
Barium, Total	61.2		mg/kg	1.88	0.327	1	08/11/17 19:25	08/15/17 19:32	EPA 3050B	1,6010C	PS
Beryllium, Total	0.113	J	mg/kg	0.939	0.062	1	08/11/17 19:25	08/15/17 19:32	EPA 3050B	1,6010C	PS
Cadmium, Total	9.37		mg/kg	1.88	0.184	1	08/11/17 19:25	08/15/17 19:32	EPA 3050B	1,6010C	PS
Chromium, Total	57.0		mg/kg	1.88	0.180	1	08/11/17 19:25	08/15/17 19:32	EPA 3050B	1,6010C	PS
Copper, Total	457		mg/kg	1.88	0.484	1	08/11/17 19:25	08/15/17 19:32	EPA 3050B	1,6010C	PS
Lead, Total	188		mg/kg	9.39	0.503	1	08/11/17 19:25	08/15/17 19:32	EPA 3050B	1,6010C	PS
Mercury, Total	7.1		mg/kg	0.31	0.07	1	08/12/17 07:30	08/14/17 16:34	EPA 7471B	1,7471B	EA
Nickel, Total	32.8		mg/kg	4.70	0.454	1	08/11/17 19:25	08/15/17 19:32	EPA 3050B	1,6010C	PS
Selenium, Total	21.7		mg/kg	3.76	0.484	1	08/11/17 19:25	08/15/17 19:32	EPA 3050B	1,6010C	PS
Silver, Total	308		mg/kg	1.88	0.532	1	08/11/17 19:25	08/15/17 19:32	EPA 3050B	1,6010C	PS



NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L172982197

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-02

Date Collected: 08/10/17 09:00

Client ID: 7PLP

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	1.17		mg/kg	0.476	0.099	1	08/11/17 19:25	08/15/17 19:27	EPA 3050B	1,6010C	PS
Barium, Total	15.5		mg/kg	0.476	0.083	1	08/11/17 19:25	08/15/17 19:27	EPA 3050B	1,6010C	PS
Beryllium, Total	0.414		mg/kg	0.238	0.016	1	08/11/17 19:25	08/15/17 19:27	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.476	0.047	1	08/11/17 19:25	08/15/17 19:27	EPA 3050B	1,6010C	PS
Chromium, Total	12.0		mg/kg	0.476	0.046	1	08/11/17 19:25	08/15/17 19:27	EPA 3050B	1,6010C	PS
Copper, Total	16.6		mg/kg	0.476	0.123	1	08/11/17 19:25	08/15/17 19:27	EPA 3050B	1,6010C	PS
Lead, Total	5.94		mg/kg	2.38	0.128	1	08/11/17 19:25	08/15/17 19:27	EPA 3050B	1,6010C	PS
Mercury, Total	0.02	J	mg/kg	0.08	0.02	1	08/12/17 07:30	08/14/17 16:36	EPA 7471B	1,7471B	EA
Nickel, Total	10.6		mg/kg	1.19	0.115	1	08/11/17 19:25	08/15/17 19:27	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	0.953	0.123	1	08/11/17 19:25	08/15/17 19:27	EPA 3050B	1,6010C	PS
Silver, Total	0.681		mg/kg	0.476	0.135	1	08/11/17 19:25	08/15/17 19:27	EPA 3050B	1,6010C	PS

NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L172982198

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-03

Date Collected: 08/10/17 09:25

Client ID: 9ST

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 12%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	2.43	J	mg/kg	3.24	0.673	1	08/11/17 19:25	08/15/17 20:30	EPA 3050B	1,6010C	PS
Barium, Total	73.7		mg/kg	3.24	0.563	1	08/11/17 19:25	08/15/17 20:30	EPA 3050B	1,6010C	PS
Beryllium, Total	ND		mg/kg	1.62	0.107	1	08/11/17 19:25	08/15/17 20:30	EPA 3050B	1,6010C	PS
Cadmium, Total	1.55	J	mg/kg	3.24	0.317	1	08/11/17 19:25	08/15/17 20:30	EPA 3050B	1,6010C	PS
Chromium, Total	24.8		mg/kg	3.24	0.311	1	08/11/17 19:25	08/15/17 20:30	EPA 3050B	1,6010C	PS
Copper, Total	641		mg/kg	3.24	0.835	1	08/11/17 19:25	08/15/17 20:30	EPA 3050B	1,6010C	PS
Lead, Total	54.3		mg/kg	16.2	0.868	1	08/11/17 19:25	08/15/17 20:30	EPA 3050B	1,6010C	PS
Mercury, Total	0.56		mg/kg	0.54	0.11	1	08/12/17 07:30	08/14/17 16:38	EPA 7471B	1,7471B	EA
Nickel, Total	27.5		mg/kg	8.09	0.783	1	08/11/17 19:25	08/15/17 20:30	EPA 3050B	1,6010C	PS
Selenium, Total	8.93		mg/kg	6.47	0.835	1	08/11/17 19:25	08/15/17 20:30	EPA 3050B	1,6010C	PS
Silver, Total	10.2		mg/kg	3.24	0.916	1	08/11/17 19:25	08/15/17 20:30	EPA 3050B	1,6010C	PS



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-04

Date Collected: 08/10/17 09:30

Client ID: 9SLPC

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 24%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	2.19		mg/kg	1.61	0.335	1	08/11/17 19:25	08/15/17 20:35	EPA 3050B	1,6010C	PS
Barium, Total	27.0		mg/kg	1.61	0.280	1	08/11/17 19:25	08/15/17 20:35	EPA 3050B	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.804	0.053	1	08/11/17 19:25	08/15/17 20:35	EPA 3050B	1,6010C	PS
Cadmium, Total	2.04		mg/kg	1.61	0.158	1	08/11/17 19:25	08/15/17 20:35	EPA 3050B	1,6010C	PS
Chromium, Total	23.8		mg/kg	1.61	0.154	1	08/11/17 19:25	08/15/17 20:35	EPA 3050B	1,6010C	PS
Copper, Total	728		mg/kg	1.61	0.415	1	08/11/17 19:25	08/15/17 20:35	EPA 3050B	1,6010C	PS
Lead, Total	48.6		mg/kg	8.04	0.431	1	08/11/17 19:25	08/15/17 20:35	EPA 3050B	1,6010C	PS
Mercury, Total	1.0		mg/kg	0.26	0.06	1	08/12/17 07:30	08/14/17 16:40	EPA 7471B	1,7471B	EA
Nickel, Total	19.7		mg/kg	4.02	0.389	1	08/11/17 19:25	08/15/17 20:35	EPA 3050B	1,6010C	PS
Selenium, Total	8.08		mg/kg	3.22	0.415	1	08/11/17 19:25	08/15/17 20:35	EPA 3050B	1,6010C	PS
Silver, Total	8.78		mg/kg	1.61	0.455	1	08/11/17 19:25	08/15/17 20:35	EPA 3050B	1,6010C	PS



NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L172982

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-05

Date Collected: 08/10/17 09:40

Client ID: 9PLP

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 41%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	2.65		mg/kg	0.939	0.195	1	08/11/17 19:25	08/15/17 20:40	EPA 3050B	1,6010C	PS
Barium, Total	33.8		mg/kg	0.939	0.163	1	08/11/17 19:25	08/15/17 20:40	EPA 3050B	1,6010C	PS
Beryllium, Total	0.122	J	mg/kg	0.470	0.031	1	08/11/17 19:25	08/15/17 20:40	EPA 3050B	1,6010C	PS
Cadmium, Total	3.98		mg/kg	0.939	0.092	1	08/11/17 19:25	08/15/17 20:40	EPA 3050B	1,6010C	PS
Chromium, Total	19.2		mg/kg	0.939	0.090	1	08/11/17 19:25	08/15/17 20:40	EPA 3050B	1,6010C	PS
Copper, Total	276		mg/kg	0.939	0.242	1	08/11/17 19:25	08/15/17 20:40	EPA 3050B	1,6010C	PS
Lead, Total	48.7		mg/kg	4.70	0.252	1	08/11/17 19:25	08/15/17 20:40	EPA 3050B	1,6010C	PS
Mercury, Total	0.49		mg/kg	0.15	0.03	1	08/12/17 07:30	08/14/17 16:45	EPA 7471B	1,7471B	EA
Nickel, Total	11.8		mg/kg	2.35	0.227	1	08/11/17 19:25	08/15/17 20:40	EPA 3050B	1,6010C	PS
Selenium, Total	1.97		mg/kg	1.88	0.242	1	08/11/17 19:25	08/15/17 20:40	EPA 3050B	1,6010C	PS
Silver, Total	19.9		mg/kg	0.939	0.266	1	08/11/17 19:25	08/15/17 20:40	EPA 3050B	1,6010C	PS



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-08

Date Collected: 08/10/17 10:35

Client ID: 10ST

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 9%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	1.35	J	mg/kg	4.08	0.850	1	08/11/17 19:25	08/15/17 20:45	EPA 3050B	1,6010C	PS
Barium, Total	17.9		mg/kg	4.08	0.711	1	08/11/17 19:25	08/15/17 20:45	EPA 3050B	1,6010C	PS
Beryllium, Total	ND		mg/kg	2.04	0.135	1	08/11/17 19:25	08/15/17 20:45	EPA 3050B	1,6010C	PS
Cadmium, Total	1.02	J	mg/kg	4.08	0.400	1	08/11/17 19:25	08/15/17 20:45	EPA 3050B	1,6010C	PS
Chromium, Total	10.7		mg/kg	4.08	0.392	1	08/11/17 19:25	08/15/17 20:45	EPA 3050B	1,6010C	PS
Copper, Total	282		mg/kg	4.08	1.05	1	08/11/17 19:25	08/15/17 20:45	EPA 3050B	1,6010C	PS
Lead, Total	60.7		mg/kg	20.4	1.09	1	08/11/17 19:25	08/15/17 20:45	EPA 3050B	1,6010C	PS
Mercury, Total	1.0		mg/kg	0.67	0.14	1	08/12/17 07:30	08/14/17 16:47	EPA 7471B	1,7471B	EA
Nickel, Total	12.5		mg/kg	10.2	0.989	1	08/11/17 19:25	08/15/17 20:45	EPA 3050B	1,6010C	PS
Selenium, Total	3.27	J	mg/kg	8.17	1.05	1	08/11/17 19:25	08/15/17 20:45	EPA 3050B	1,6010C	PS
Silver, Total	1.72	J	mg/kg	4.08	1.16	1	08/11/17 19:25	08/15/17 20:45	EPA 3050B	1,6010C	PS



NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L172982

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-09

Date Collected: 08/10/17 10:40

Client ID: 10SLPA

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	0.682		mg/kg	0.525	0.109	1	08/11/17 19:25	08/15/17 20:50	EPA 3050B	1,6010C	PS
Barium, Total	23.1		mg/kg	0.525	0.091	1	08/11/17 19:25	08/15/17 20:50	EPA 3050B	1,6010C	PS
Beryllium, Total	0.079	J	mg/kg	0.262	0.017	1	08/11/17 19:25	08/15/17 20:50	EPA 3050B	1,6010C	PS
Cadmium, Total	0.115	J	mg/kg	0.525	0.051	1	08/11/17 19:25	08/15/17 20:50	EPA 3050B	1,6010C	PS
Chromium, Total	6.37		mg/kg	0.525	0.050	1	08/11/17 19:25	08/15/17 20:50	EPA 3050B	1,6010C	PS
Copper, Total	28.5		mg/kg	0.525	0.135	1	08/11/17 19:25	08/15/17 20:50	EPA 3050B	1,6010C	PS
Lead, Total	9.15		mg/kg	2.62	0.141	1	08/11/17 19:25	08/15/17 20:50	EPA 3050B	1,6010C	PS
Mercury, Total	0.06	J	mg/kg	0.08	0.02	1	08/12/17 07:30	08/14/17 16:49	EPA 7471B	1,7471B	EA
Nickel, Total	5.40		mg/kg	1.31	0.127	1	08/11/17 19:25	08/15/17 20:50	EPA 3050B	1,6010C	PS
Selenium, Total	0.325	J	mg/kg	1.05	0.135	1	08/11/17 19:25	08/15/17 20:50	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.525	0.148	1	08/11/17 19:25	08/15/17 20:50	EPA 3050B	1,6010C	PS



Project Name: GCA1702

Lab Number: L1727982

RECEIVED NYSCEF: 06/14/2022
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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-12

Date Collected: 08/10/17 12:10

Client ID: MH1

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 31%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	8.66		mg/kg	1.24	0.259	1	08/11/17 19:25	08/15/17 20:55	EPA 3050B	1,6010C	PS
Barium, Total	58.5		mg/kg	1.24	0.217	1	08/11/17 19:25	08/15/17 20:55	EPA 3050B	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.623	0.041	1	08/11/17 19:25	08/15/17 20:55	EPA 3050B	1,6010C	PS
Cadmium, Total	21.1		mg/kg	1.24	0.122	1	08/11/17 19:25	08/15/17 20:55	EPA 3050B	1,6010C	PS
Chromium, Total	190		mg/kg	1.24	0.120	1	08/11/17 19:25	08/15/17 20:55	EPA 3050B	1,6010C	PS
Copper, Total	1050		mg/kg	1.24	0.321	1	08/11/17 19:25	08/15/17 20:55	EPA 3050B	1,6010C	PS
Lead, Total	1930		mg/kg	6.23	0.334	1	08/11/17 19:25	08/15/17 20:55	EPA 3050B	1,6010C	PS
Mercury, Total	4.7		mg/kg	0.20	0.04	1	08/12/17 07:30	08/14/17 16:51	EPA 7471B	1,7471B	EA
Nickel, Total	30.0		mg/kg	3.11	0.302	1	08/11/17 19:25	08/15/17 20:55	EPA 3050B	1,6010C	PS
Selenium, Total	4.86		mg/kg	2.49	0.321	1	08/11/17 19:25	08/15/17 20:55	EPA 3050B	1,6010C	PS
Silver, Total	4.56		mg/kg	1.24	0.353	1	08/11/17 19:25	08/15/17 20:55	EPA 3050B	1,6010C	PS



NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L172982

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-13

Date Collected: 08/10/17 12:15

Client ID: 12PLP

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 19%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	1.14	J	mg/kg	2.07	0.430	1	08/11/17 19:25	08/15/17 21:52	EPA 3050B	1,6010C	PS
Barium, Total	46.0		mg/kg	2.07	0.360	1	08/11/17 19:25	08/15/17 21:52	EPA 3050B	1,6010C	PS
Beryllium, Total	0.124	J	mg/kg	1.03	0.068	1	08/11/17 19:25	08/15/17 21:52	EPA 3050B	1,6010C	PS
Cadmium, Total	1.43	J	mg/kg	2.07	0.203	1	08/11/17 19:25	08/15/17 21:52	EPA 3050B	1,6010C	PS
Chromium, Total	28.0		mg/kg	2.07	0.199	1	08/11/17 19:25	08/15/17 21:52	EPA 3050B	1,6010C	PS
Copper, Total	298		mg/kg	2.07	0.534	1	08/11/17 19:25	08/15/17 21:52	EPA 3050B	1,6010C	PS
Lead, Total	30.1		mg/kg	10.3	0.554	1	08/11/17 19:25	08/15/17 21:52	EPA 3050B	1,6010C	PS
Mercury, Total	0.22	J	mg/kg	0.33	0.07	1	08/12/17 07:30	08/14/17 16:53	EPA 7471B	1,7471B	EA
Nickel, Total	11.6		mg/kg	5.17	0.501	1	08/11/17 19:25	08/15/17 21:52	EPA 3050B	1,6010C	PS
Selenium, Total	3.37	J	mg/kg	4.14	0.534	1	08/11/17 19:25	08/15/17 21:52	EPA 3050B	1,6010C	PS
Silver, Total	2.09		mg/kg	2.07	0.585	1	08/11/17 19:25	08/15/17 21:52	EPA 3050B	1,6010C	PS



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982-14

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-14

Date Collected: 08/10/17 12:25

Client ID: 12ST

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 32%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	6.26		mg/kg	1.19	0.247	1	08/11/17 19:25	08/15/17 21:05	EPA 3050B	1,6010C	PS
Barium, Total	80.8		mg/kg	1.19	0.207	1	08/11/17 19:25	08/15/17 21:05	EPA 3050B	1,6010C	PS
Beryllium, Total	0.060	J	mg/kg	0.595	0.039	1	08/11/17 19:25	08/15/17 21:05	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	1.19	0.117	1	08/11/17 19:25	08/15/17 21:05	EPA 3050B	1,6010C	PS
Chromium, Total	1480		mg/kg	1.19	0.114	1	08/11/17 19:25	08/15/17 21:05	EPA 3050B	1,6010C	PS
Copper, Total	388		mg/kg	1.19	0.307	1	08/11/17 19:25	08/15/17 21:05	EPA 3050B	1,6010C	PS
Lead, Total	223		mg/kg	5.95	0.319	1	08/11/17 19:25	08/15/17 21:05	EPA 3050B	1,6010C	PS
Mercury, Total	0.54		mg/kg	0.19	0.04	1	08/12/17 07:30	08/14/17 16:55	EPA 7471B	1,7471B	EA
Nickel, Total	54.6		mg/kg	2.97	0.288	1	08/11/17 19:25	08/15/17 21:05	EPA 3050B	1,6010C	PS
Selenium, Total	3.18		mg/kg	2.38	0.307	1	08/11/17 19:25	08/15/17 21:05	EPA 3050B	1,6010C	PS
Silver, Total	0.726	J	mg/kg	1.19	0.337	1	08/11/17 19:25	08/15/17 21:05	EPA 3050B	1,6010C	PS



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982-206

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-18

Date Collected: 08/10/17 13:15

Client ID: 13ST

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 17%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	1.26	J	mg/kg	2.33	0.484	1	08/11/17 19:25	08/15/17 21:57	EPA 3050B	1,6010C	PS
Barium, Total	113		mg/kg	2.33	0.405	1	08/11/17 19:25	08/15/17 21:57	EPA 3050B	1,6010C	PS
Beryllium, Total	ND		mg/kg	1.16	0.077	1	08/11/17 19:25	08/15/17 21:57	EPA 3050B	1,6010C	PS
Cadmium, Total	0.559	J	mg/kg	2.33	0.228	1	08/11/17 19:25	08/15/17 21:57	EPA 3050B	1,6010C	PS
Chromium, Total	14.2		mg/kg	2.33	0.224	1	08/11/17 19:25	08/15/17 21:57	EPA 3050B	1,6010C	PS
Copper, Total	312		mg/kg	2.33	0.601	1	08/11/17 19:25	08/15/17 21:57	EPA 3050B	1,6010C	PS
Lead, Total	10.8	J	mg/kg	11.6	0.624	1	08/11/17 19:25	08/15/17 21:57	EPA 3050B	1,6010C	PS
Mercury, Total	0.27	J	mg/kg	0.38	0.08	1	08/12/17 07:30	08/14/17 16:57	EPA 7471B	1,7471B	EA
Nickel, Total	8.66		mg/kg	5.82	0.563	1	08/11/17 19:25	08/15/17 21:57	EPA 3050B	1,6010C	PS
Selenium, Total	3.86	J	mg/kg	4.66	0.601	1	08/11/17 19:25	08/15/17 21:57	EPA 3050B	1,6010C	PS
Silver, Total	0.885	J	mg/kg	2.33	0.659	1	08/11/17 19:25	08/15/17 21:57	EPA 3050B	1,6010C	PS



Project Name: GCA1702

Lab Number: L172982

RECEIVED NYSCEF: 06/14/2022
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Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-19

Date Collected: 08/10/17 13:20

Client ID: 13PLP

Date Received: 08/10/17

Sample Location: FLOWER FIELDS, ST. JAMES

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 32%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	2.44		mg/kg	1.24	0.257	1	08/11/17 19:25	08/15/17 21:42	EPA 3050B	1,6010C	PS
Barium, Total	77.4		mg/kg	1.24	0.215	1	08/11/17 19:25	08/15/17 21:42	EPA 3050B	1,6010C	PS
Beryllium, Total	0.074	J	mg/kg	0.619	0.041	1	08/11/17 19:25	08/15/17 21:42	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	1.24	0.121	1	08/11/17 19:25	08/15/17 21:42	EPA 3050B	1,6010C	PS
Chromium, Total	35.1		mg/kg	1.24	0.119	1	08/11/17 19:25	08/15/17 21:42	EPA 3050B	1,6010C	PS
Copper, Total	184		mg/kg	1.24	0.319	1	08/11/17 19:25	08/15/17 21:42	EPA 3050B	1,6010C	PS
Lead, Total	13.1		mg/kg	6.19	0.332	1	08/11/17 19:25	08/15/17 21:42	EPA 3050B	1,6010C	PS
Mercury, Total	0.26		mg/kg	0.19	0.04	1	08/12/17 07:30	08/14/17 16:59	EPA 7471B	1,7471B	EA
Nickel, Total	9.95		mg/kg	3.09	0.299	1	08/11/17 19:25	08/15/17 21:42	EPA 3050B	1,6010C	PS
Selenium, Total	9.08		mg/kg	2.47	0.319	1	08/11/17 19:25	08/15/17 21:42	EPA 3050B	1,6010C	PS
Silver, Total	0.594	J	mg/kg	1.24	0.350	1	08/11/17 19:25	08/15/17 21:42	EPA 3050B	1,6010C	PS



NYSCEF DOC. NO. 48
Project Name: GCA1702

RECEIVED NYSCEF: 06/14/2022
Lab Number: PLS 27982

Project Number: GCA1702

Report Date: 08/25/17

**Method Blank Analysis
 Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05,08-09,12-14,18-19 Batch: WG1031272-1									
Arsenic, Total	ND	mg/kg	0.400	0.083	1	08/11/17 19:25	08/15/17 19:07	1,6010C	PS
Barium, Total	ND	mg/kg	0.400	0.070	1	08/11/17 19:25	08/15/17 19:07	1,6010C	PS
Beryllium, Total	ND	mg/kg	0.200	0.013	1	08/11/17 19:25	08/15/17 19:07	1,6010C	PS
Cadmium, Total	ND	mg/kg	0.400	0.039	1	08/11/17 19:25	08/15/17 19:07	1,6010C	PS
Chromium, Total	ND	mg/kg	0.400	0.038	1	08/11/17 19:25	08/15/17 19:07	1,6010C	PS
Copper, Total	ND	mg/kg	0.400	0.103	1	08/11/17 19:25	08/15/17 19:07	1,6010C	PS
Lead, Total	ND	mg/kg	2.00	0.107	1	08/11/17 19:25	08/15/17 19:07	1,6010C	PS
Nickel, Total	ND	mg/kg	1.00	0.097	1	08/11/17 19:25	08/15/17 19:07	1,6010C	PS
Selenium, Total	ND	mg/kg	0.800	0.103	1	08/11/17 19:25	08/15/17 19:07	1,6010C	PS
Silver, Total	ND	mg/kg	0.400	0.113	1	08/11/17 19:25	08/15/17 19:07	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05,08-09,12-14,18-19 Batch: WG1031341-1									
Mercury, Total	ND	mg/kg	0.08	0.02	1	08/12/17 07:30	08/14/17 16:23	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-05,08-09,12-14,18-19 Batch: WG1031272-2 SRM Lot Number: D093-540								
Arsenic, Total	92		-		70-130	-		
Barium, Total	90		-		83-117	-		
Beryllium, Total	95		-		83-117	-		
Cadmium, Total	94		-		83-117	-		
Chromium, Total	92		-		80-120	-		
Copper, Total	95		-		82-118	-		
Lead, Total	94		-		82-117	-		
Nickel, Total	94		-		83-117	-		
Selenium, Total	96		-		78-122	-		
Silver, Total	92		-		76-124	-		
Total Metals - Mansfield Lab Associated sample(s): 01-05,08-09,12-14,18-19 Batch: WG1031341-2 SRM Lot Number: D093-540								
Mercury, Total	90		-		72-128	-		



**Matrix Spike Analysis
 Batch Quality Control**

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,08-09,12-14,18-19 QC Batch ID: WG1031272-3 QC Sample: L1727982-01 Client ID: 7ST												
Arsenic, Total	3.66	45.1	47.4	97		-	-		75-125	-		20
Barium, Total	61.2	752	878	108		-	-		75-125	-		20
Beryllium, Total	0.113J	18.8	20.5	109		-	-		75-125	-		20
Cadmium, Total	9.37	19.2	32.6	121		-	-		75-125	-		20
Chromium, Total	57.0	75.2	141	112		-	-		75-125	-		20
Copper, Total	457.	94	584	135	Q	-	-		75-125	-		20
Lead, Total	188.	192	375	97		-	-		75-125	-		20
Nickel, Total	32.8	188	228	104		-	-		75-125	-		20
Selenium, Total	21.7	45.1	65.0	96		-	-		75-125	-		20
Silver, Total	308.	113	498	168	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-05,08-09,12-14,18-19 QC Batch ID: WG1031341-3 WG1031341-4 QC Sample: L1728034-04 Client ID: MS Sample												
Mercury, Total	0.41	0.161	0.46	31	Q	0.56	93		80-120	20		20



Lab Duplicate Analysis
Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,08-09,12-14,18-19 QC Batch ID: WG1031272-4 QC Sample: L1727982-01 Client ID: 7ST						
Arsenic, Total	3.66	4.03	mg/kg	10		20
Barium, Total	61.2	67.2	mg/kg	9		20
Beryllium, Total	0.113J	0.097J	mg/kg	NC		20
Cadmium, Total	9.37	10.6	mg/kg	12		20
Chromium, Total	57.0	47.8	mg/kg	18		20
Copper, Total	457.	471	mg/kg	3		20
Lead, Total	188.	184	mg/kg	2		20
Nickel, Total	32.8	35.0	mg/kg	6		20
Selenium, Total	21.7	20.6	mg/kg	5		20
Silver, Total	308.	346	mg/kg	12		20



**INORGANICS
&
MISCELLANEOUS**



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-01
Client ID: 7ST
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 08:45
Date Received: 08/10/17
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	20.4		%	0.100	NA	1	-	08/11/17 08:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-02
Client ID: 7PLP
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 09:00
Date Received: 08/10/17
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	81.4		%	0.100	NA	1	-	08/11/17 08:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-03
Client ID: 9ST
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 09:25
Date Received: 08/10/17
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	11.8		%	0.100	NA	1	-	08/11/17 08:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-04
Client ID: 9SLPC
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 09:30
Date Received: 08/10/17
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	24.2		%	0.100	NA	1	-	08/11/17 08:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-05
Client ID: 9PLP
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 09:40
Date Received: 08/10/17
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	40.6		%	0.100	NA	1	-	08/11/17 08:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-08
Client ID: 10ST
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 10:35
Date Received: 08/10/17
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	9.40		%	0.100	NA	1	-	08/11/17 08:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-09
Client ID: 10SLPA
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 10:40
Date Received: 08/10/17
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	75.4		%	0.100	NA	1	-	08/11/17 08:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-12
Client ID: MH1
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 12:10
Date Received: 08/10/17
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	31.4		%	0.100	NA	1	-	08/11/17 08:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-13
Client ID: 12PLP
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 12:15
Date Received: 08/10/17
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	19.0		%	0.100	NA	1	-	08/11/17 08:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-14
Client ID: 12ST
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 12:25
Date Received: 08/10/17
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	32.2		%	0.100	NA	1	-	08/11/17 08:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-18
Client ID: 13ST
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 13:15
Date Received: 08/10/17
Field Prep: Not Specified

Table with 11 columns: Parameter, Result, Qualifier, Units, RL, MDL, Dilution Factor, Date Prepared, Date Analyzed, Analytical Method, Analyst. Row 1: General Chemistry - Westborough Lab. Row 2: Solids, Total, 16.7, %, 0.100, NA, 1, -, 08/11/17 08:58, 121,2540G, RI.



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1727982

Project Number: GCA1702

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1727982-19
Client ID: 13PLP
Sample Location: FLOWER FIELDS, ST. JAMES
Matrix: Soil

Date Collected: 08/10/17 13:20
Date Received: 08/10/17
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	32.2		%	0.100	NA	1	-	08/11/17 08:58	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1727982
Report Date: 08/25/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05,08-09,12-14,18-19 QC Batch ID: WG1031047-1 QC Sample: L1727829-01 Client ID: DUP Sample						
Solids, Total	80.3	79.2	%	1		20



Project Name: 48 GCA1702

Lab Number: 1727982 ECTMWB NYSCFP: 06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1727982-01A	Vial MeOH preserved	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L1727982-01B	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-01C	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-01D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L1727982-01E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-01F	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYTCL-8270(14)
L1727982-02A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727982-02B	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-02C	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-02D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1727982-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-02F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)
L1727982-03A	Vial MeOH preserved	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L1727982-03B	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-03C	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-03D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L1727982-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-03F	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYTCL-8270(14)
L1727982-03X	Vial MeOH preserved split	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)



Project Name: 48 GCA1702

Lab Number: 1727982

Project Number: GCA1702

Report Date: 08/25/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1727982-03Y	Vial MeOH preserved split	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L1727982-04A	Vial MeOH preserved	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L1727982-04B	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-04C	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-04D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L1727982-04E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-04F	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYTCL-8270(14)
L1727982-05A	Vial MeOH preserved	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L1727982-05B	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-05C	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-05D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L1727982-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-05F	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYTCL-8270(14)
L1727982-06A	Vial MeOH preserved	B	NA		4.8	Y	Absent		HOLD-8260HLW(14)
L1727982-06B	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-06C	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-06D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		HOLD-WETCHEM()
L1727982-06E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		HOLD-METAL(180)
L1727982-06F	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		HOLD-8270(14)
L1727982-07A	Vial MeOH preserved	B	NA		4.8	Y	Absent		HOLD-8260HLW(14)
L1727982-07B	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-07C	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-07D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		HOLD-WETCHEM()
L1727982-07E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		HOLD-METAL(180)
L1727982-07F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1727982-08A	Vial MeOH preserved	B	NA		4.8	Y	Absent		NYTCL-8260HLW(14)
L1727982-08B	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1727982-08C	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-08D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L1727982-08E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-08F	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYTCL-8270(14)
L1727982-09A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727982-09B	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-09C	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-09D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1727982-09E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-09F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)
L1727982-10A	Vial MeOH preserved	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L1727982-10B	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-10C	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-10D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L1727982-10E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L1727982-10F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1727982-11A	Vial MeOH preserved	B	NA		4.8	Y	Absent		HOLD-8260HLW(14)
L1727982-11B	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-11C	Vial water preserved	B	NA		4.8	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-11D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		HOLD-WETCHEM()
L1727982-11E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		HOLD-METAL(180)
L1727982-11F	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		HOLD-8270(14)
L1727982-12A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727982-12B	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-12C	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-12D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)

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Lab Number: 1727982 ECTMWD-NYSCEF-06/14/2022

Project Number: GCA1702

Report Date: 08/25/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1727982-12E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-12F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)
L1727982-13A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727982-13B	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-13C	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-13D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1727982-13E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-13F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)
L1727982-14A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727982-14B	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-14C	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-14D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1727982-14E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-14F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)
L1727982-15A	Vial MeOH preserved	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L1727982-15B	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-15C	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-15D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L1727982-15E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L1727982-15F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1727982-16A	Vial MeOH preserved	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L1727982-16B	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-16C	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-16D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L1727982-16E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L1727982-16F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)

*Values in parentheses indicate holding time in days



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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1727982-17A	Vial MeOH preserved	A	NA		2.7	Y	Absent		HOLD-8260HLW(14)
L1727982-17B	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-17C	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	HOLD-8260HLW(14)
L1727982-17D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		HOLD-WETCHEM()
L1727982-17E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L1727982-17F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-8270(14)
L1727982-18A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727982-18B	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-18C	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-18D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1727982-18E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-18F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)
L1727982-18X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727982-18Y	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727982-19A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1727982-19B	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-19C	Vial water preserved	A	NA		2.7	Y	Absent	11-AUG-17 06:27	NYTCL-8260HLW(14)
L1727982-19D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1727982-19E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1727982-19F	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)

*Values in parentheses indicate holding time in days



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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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

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Data Qualifiers

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.
- 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.

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REFERENCES

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

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.



Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

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Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPW

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

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; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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, SM9221E.

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. EPA 245.1 Hg.

Non-Potable Water


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


EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>		<p><u>Service Centers</u></p> <p>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>		<p>Page 1 of 2</p>		<p>Date Rec'd in Lab 8/10/17</p>		<p>ALPHA Job # L1727987</p>					
		<p>Project Information</p> <p>Project Name: GLA1702</p> <p>Project Location: Flower Field, St. James</p> <p>Project #</p> <p>(Use Project name as Project #) <input checked="" type="checkbox"/></p> <p>Project Manager: Thomas Melia</p> <p>ALPHAQuote #:</p> <p>Turn-Around Time</p> <p>Standard <input checked="" type="checkbox"/> Due Date:</p> <p>Rush (only if pre approved) <input type="checkbox"/> # of Days:</p>				<p>Deliverables</p> <p><input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input checked="" type="checkbox"/> Same as Client Info</p> <p><input type="checkbox"/> EQiS (1 File) <input type="checkbox"/> EQiS (4 File)</p> <p><input type="checkbox"/> Other</p>		<p>Billing Information</p> <p>PO #</p>					
<p>Client Information</p> <p>Client: DWGC</p> <p>Address: 630 Johnson Ave St James NY 12156</p> <p>Phone: 631-549-6353</p> <p>Fax:</p> <p>Email: Thomas.Melia@dwgc.com</p>		<p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375</p> <p><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51</p> <p><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other</p> <p><input type="checkbox"/> NY Unrestricted Use</p> <p><input type="checkbox"/> NYC Sewer Discharge</p>		<p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities.</p> <p>Disposal Facility:</p> <p><input type="checkbox"/> NJ <input type="checkbox"/> NY</p> <p><input type="checkbox"/> Other:</p>									
<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p>Other project specific requirements/comments:</p> <p>Please specify Metals or TAL.</p>						<p>ANALYSIS</p>		<p>Sample Filtration</p> <p><input type="checkbox"/> Done</p> <p><input type="checkbox"/> Lab to do</p> <p>Preservation</p> <p><input type="checkbox"/> Lab to do</p> <p>(Please Specify below)</p>					
<p>ALPHA Lab ID (Lab Use Only)</p>		<p>Sample ID</p>		<p>Collection</p> <p>Date Time</p>		<p>Sample Matrix</p>		<p>Sampler's Initials</p>		<p>VOCs</p> <p>SUOCs</p> <p>Metals (SCM)</p>		<p>Sample Specific Comments</p>	
27982-01		7ST		8/10 845		S		NR					
-02		7PLP		900									
-03		9ST		925									
-04		9SLPC		930									
-05		9PLP		940									
-06		9SLPB		955								HOLD	
-07		9SLPA		1000								HOLD	
-08		10ST		1035									
-09		10SLPA		1040									
-10		10SLPC		1055								HOLD	
<p>Preservative Code:</p> <p>A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other</p>		<p>Container Code</p> <p>P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle</p>		<p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p>		<p>Container Type</p>		<p>Preservative</p>		<p>Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)</p>			
		<p>Relinquished By:</p> <p><i>Michael Kim</i></p>		<p>Date/Time</p> <p>8/10 15:30</p>		<p>Received By:</p> <p>Daniel Fischer AAL</p>		<p>Date/Time</p> <p>8/10/17 16:10</p>					
		<p><i>Daniel Fischer AAL</i></p>		<p>8/10/17 19:55</p>		<p><i>Daniel Fischer AAL</i></p>		<p>8/10 22:00</p>					
		<p><i>JAA</i></p>		<p>8/11 01:30</p>		<p><i>Daniel Fischer AAL</i></p>		<p>8/11/17 01:45</p>					

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>2</u> of <u>2</u>		Date Rec'd in Lab <u>8/11/17</u>		ALPHA Job # <u>11727987</u>																																																																																																	
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Client Information Client: <u>PWGC</u> Address: <u>630 Johnson Ave. #7</u> <u>Babonia NY 11216</u> Phone: <u>931-587-9353</u> Fax: _____ Email: <u>Thom.M@pwgc.com</u>		Project Manager: <u>Thomas Melis</u> ALPHAQuote #: _____ Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other: _____																																																																																																			
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Form No: 01-25 HC (rev. 30-Sept-2013)		Relinquished By: <u>Nick K...</u> Date/Time: <u>8/10 15:30</u>		Received By: <u>Daniel Fischer AAL</u> Date/Time: <u>8/11/17 16:10</u>		<u>...</u> Date/Time: <u>8/10 2200</u>		<u>...</u> Date/Time: <u>8/11/17 01:45</u>																																																																																																	



ANALYTICAL REPORT

Lab Number:	L1728146
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Thomas Melia
Phone:	(631) 589-6353
Project Name:	GCA1702
Project Number:	GCA1702
Report Date:	08/28/17

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1728146

Project Number: GCA1702

Report Date: 08/28/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1728146-01	SD11	SOIL	FLOWERFIELDS	08/11/17 12:20	08/11/17
L1728146-02	SD13	SOIL	FLOWERFIELDS	08/11/17 12:00	08/11/17
L1728146-03	SD17	SOIL	FLOWERFIELDS	08/11/17 11:30	08/11/17
L1728146-04	CB-1	SOIL	FLOWERFIELDS	08/11/17 10:00	08/11/17
L1728146-05	SD14	SOIL	FLOWERFIELDS	08/11/17 11:25	08/11/17



Project Name: GCA1702

Lab Number: L1728146

Project Number: GCA1702

Report Date: 08/28/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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: GCA1702

Lab Number: L1728146

Project Number: GCA1702

Report Date: 08/28/17

Case Narrative (continued)

Report Submission

August 28, 2017: This final report includes the results of all requested analyses.

August 18, 2017: This is a preliminary report.

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

Volatile Organics

L1728146-02: The internal standard (IS) response(s) for 1,4-dichlorobenzene-d4 (34%) and the surrogate recovery for 4-bromofluorobenzene (159%) was outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (40%) and 4-bromofluorobenzene (141%). The results of both analyses are reported.

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:

Melissa Cripps Melissa Cripps

Title: Technical Director/Representative

Date: 08/28/17



ORGANICS



VOLATILES



Project Name: 48 GCA1702

Lab Number: L1728146

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-02
 Client ID: SD13
 Sample Location: FLOWERFIELDS

Date Collected: 08/11/17 12:00
 Date Received: 08/11/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/17/17 03:01
 Analyst: MV
 Percent Solids: 37%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	24	3.9	1
1,1-Dichloroethane	ND		ug/kg	3.5	0.63	1
Chloroform	ND		ug/kg	3.5	0.87	1
Carbon tetrachloride	ND		ug/kg	2.4	0.81	1
1,2-Dichloropropane	ND		ug/kg	8.2	0.54	1
Dibromochloromethane	ND		ug/kg	2.4	0.41	1
1,1,2-Trichloroethane	ND		ug/kg	3.5	0.74	1
Tetrachloroethene	ND		ug/kg	2.4	0.71	1
Chlorobenzene	ND		ug/kg	2.4	0.82	1
Trichlorofluoromethane	ND		ug/kg	12	0.98	1
1,2-Dichloroethane	ND		ug/kg	2.4	0.58	1
1,1,1-Trichloroethane	ND		ug/kg	2.4	0.82	1
Bromodichloromethane	ND		ug/kg	2.4	0.72	1
trans-1,3-Dichloropropene	ND		ug/kg	2.4	0.49	1
cis-1,3-Dichloropropene	ND		ug/kg	2.4	0.54	1
1,1-Dichloropropene	ND		ug/kg	12	0.77	1
Bromoform	ND		ug/kg	9.4	0.56	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.4	0.70	1
Benzene	ND		ug/kg	2.4	0.45	1
Toluene	37		ug/kg	3.5	0.46	1
Ethylbenzene	0.40	J	ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	4.7	0.74	1
Chloroethane	ND		ug/kg	4.7	0.74	1
1,1-Dichloroethene	ND		ug/kg	2.4	0.87	1
trans-1,2-Dichloroethene	ND		ug/kg	3.5	0.57	1
Trichloroethene	ND		ug/kg	2.4	0.71	1
1,2-Dichlorobenzene	ND		ug/kg	12	0.43	1
1,3-Dichlorobenzene	ND		ug/kg	12	0.51	1
1,4-Dichlorobenzene	ND		ug/kg	12	0.43	1
Methyl tert butyl ether	ND		ug/kg	4.7	0.36	1

NYSCEF DOC NO: 48 Project Name: GCA1702

RECEIVED NYSCEF: 06/14/2022 Lab Number: L1728146 Page 1 of 244

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-02
Client ID: SD13
Sample Location: FLOWERFIELDSDate Collected: 08/11/17 12:00
Date Received: 08/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	4.7	0.82	1
o-Xylene	ND		ug/kg	4.7	0.79	1
Xylenes, Total	ND		ug/kg	4.7	0.79	1
cis-1,2-Dichloroethene	ND		ug/kg	2.4	0.80	1
Dibromomethane	ND		ug/kg	24	0.56	1
Styrene	ND		ug/kg	4.7	0.94	1
Dichlorodifluoromethane	ND		ug/kg	24	1.2	1
Acetone	490		ug/kg	24	5.4	1
2-Butanone	280		ug/kg	24	1.6	1
4-Methyl-2-pentanone	ND		ug/kg	24	0.57	1
1,2,3-Trichloropropane	ND		ug/kg	24	0.42	1
Bromochloromethane	ND		ug/kg	12	0.84	1
2,2-Dichloropropane	ND		ug/kg	12	1.0	1
1,2-Dibromoethane	ND		ug/kg	9.4	0.47	1
1,3-Dichloropropane	ND		ug/kg	12	0.43	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.4	0.75	1
Bromobenzene	ND		ug/kg	12	0.52	1
n-Butylbenzene	ND		ug/kg	2.4	0.54	1
sec-Butylbenzene	ND		ug/kg	2.4	0.51	1
tert-Butylbenzene	ND		ug/kg	12	0.58	1
o-Chlorotoluene	ND		ug/kg	12	0.52	1
p-Chlorotoluene	ND		ug/kg	12	0.43	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	12	0.93	1
Hexachlorobutadiene	ND		ug/kg	12	0.82	1
Isopropylbenzene	ND		ug/kg	2.4	0.46	1
p-Isopropyltoluene	17		ug/kg	2.4	0.48	1
Naphthalene	2.4	J	ug/kg	12	0.32	1
n-Propylbenzene	ND		ug/kg	2.4	0.50	1
1,2,3-Trichlorobenzene	ND		ug/kg	12	0.59	1
1,2,4-Trichlorobenzene	ND		ug/kg	12	0.50	1
1,3,5-Trimethylbenzene	0.72	J	ug/kg	12	0.38	1
1,2,4-Trimethylbenzene	3.3	J	ug/kg	12	0.44	1
Freon-113	ND		ug/kg	47	1.2	1
p-Diethylbenzene	ND		ug/kg	9.4	9.4	1
p-Ethyltoluene	2.0	J	ug/kg	9.4	0.55	1
1,2,4,5-Tetramethylbenzene	0.85	J	ug/kg	9.4	0.37	1

Project Name: 48 GCA1702

Lab Number: L1728146

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Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-02
Client ID: SD13
Sample Location: FLOWERFIELDS

Date Collected: 08/11/17 12:00
Date Received: 08/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	124		70-130
4-Bromofluorobenzene	159	Q	70-130
Dibromofluoromethane	107		70-130



Project Name: 48 GCA1702

Lab Number: L1728146

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-02 R
 Client ID: SD13
 Sample Location: FLOWERFIELDS

Date Collected: 08/11/17 12:00
 Date Received: 08/11/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/17/17 12:31
 Analyst: JC
 Percent Solids: 37%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	50	8.2	1
1,1-Dichloroethane	ND		ug/kg	7.4	1.3	1
Chloroform	ND		ug/kg	7.4	1.8	1
Carbon tetrachloride	ND		ug/kg	5.0	1.7	1
1,2-Dichloropropane	ND		ug/kg	17	1.1	1
Dibromochloromethane	ND		ug/kg	5.0	0.87	1
1,1,2-Trichloroethane	ND		ug/kg	7.4	1.6	1
Tetrachloroethene	ND		ug/kg	5.0	1.5	1
Chlorobenzene	ND		ug/kg	5.0	1.7	1
Trichlorofluoromethane	ND		ug/kg	25	2.1	1
1,2-Dichloroethane	ND		ug/kg	5.0	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	5.0	1.7	1
Bromodichloromethane	ND		ug/kg	5.0	1.5	1
trans-1,3-Dichloropropene	ND		ug/kg	5.0	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	5.0	1.1	1
1,1-Dichloropropene	ND		ug/kg	25	1.6	1
Bromoform	ND		ug/kg	20	1.2	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	5.0	1.5	1
Benzene	ND		ug/kg	5.0	0.96	1
Toluene	12		ug/kg	7.4	0.97	1
Ethylbenzene	ND		ug/kg	5.0	0.84	1
Vinyl chloride	ND		ug/kg	9.9	1.6	1
Chloroethane	ND		ug/kg	9.9	1.6	1
1,1-Dichloroethene	ND		ug/kg	5.0	1.8	1
trans-1,2-Dichloroethene	ND		ug/kg	7.4	1.2	1
Trichloroethene	ND		ug/kg	5.0	1.5	1
1,2-Dichlorobenzene	ND		ug/kg	25	0.90	1
1,3-Dichlorobenzene	ND		ug/kg	25	1.1	1
1,4-Dichlorobenzene	ND		ug/kg	25	0.90	1
Methyl tert butyl ether	ND		ug/kg	9.9	0.76	1



Project Name: 48 GCA1702

Lab Number: RECEIVED NYSCEF: 06/14/2022 Page 1247

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-02 R
 Client ID: SD13
 Sample Location: FLOWERFIELDS

Date Collected: 08/11/17 12:00
 Date Received: 08/11/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	9.9	1.7	1
o-Xylene	ND		ug/kg	9.9	1.7	1
Xylenes, Total	ND		ug/kg	9.9	1.7	1
cis-1,2-Dichloroethene	ND		ug/kg	5.0	1.7	1
Dibromomethane	ND		ug/kg	50	1.2	1
Styrene	ND		ug/kg	9.9	2.0	1
Dichlorodifluoromethane	ND		ug/kg	50	2.5	1
Acetone	300		ug/kg	50	11.	1
2-Butanone	120		ug/kg	50	3.4	1
4-Methyl-2-pentanone	ND		ug/kg	50	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	50	0.88	1
Bromochloromethane	ND		ug/kg	25	1.8	1
2,2-Dichloropropane	ND		ug/kg	25	2.2	1
1,2-Dibromoethane	ND		ug/kg	20	0.99	1
1,3-Dichloropropane	ND		ug/kg	25	0.91	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0	1.6	1
Bromobenzene	ND		ug/kg	25	1.1	1
n-Butylbenzene	ND		ug/kg	5.0	1.1	1
sec-Butylbenzene	ND		ug/kg	5.0	1.1	1
tert-Butylbenzene	ND		ug/kg	25	1.2	1
o-Chlorotoluene	ND		ug/kg	25	1.1	1
p-Chlorotoluene	ND		ug/kg	25	0.91	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	25	2.0	1
Hexachlorobutadiene	ND		ug/kg	25	1.7	1
Isopropylbenzene	ND		ug/kg	5.0	0.96	1
p-Isopropyltoluene	21		ug/kg	5.0	1.0	1
Naphthalene	1.0	J	ug/kg	25	0.68	1
n-Propylbenzene	ND		ug/kg	5.0	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	25	1.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	25	1.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	25	0.80	1
1,2,4-Trimethylbenzene	1.7	J	ug/kg	25	0.92	1
Freon-113	ND		ug/kg	99	2.6	1
p-Diethylbenzene	ND		ug/kg	20	20.	1
p-Ethyltoluene	ND		ug/kg	20	1.2	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	20	0.77	1



Project Name: 48 GCA1702

Lab Number: 1728146

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Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-02 R
Client ID: SD13
Sample Location: FLOWERFIELDS

Date Collected: 08/11/17 12:00
Date Received: 08/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	141	Q	70-130
Dibromofluoromethane	106		70-130



Project Name: 48 GCA1702

Lab Number: 17249

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-03
 Client ID: SD17
 Sample Location: FLOWERFIELDS

Date Collected: 08/11/17 11:30
 Date Received: 08/11/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/17/17 03:28
 Analyst: MV
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	17	2.7	1
1,1-Dichloroethane	ND		ug/kg	2.5	0.45	1
Chloroform	ND		ug/kg	2.5	0.62	1
Carbon tetrachloride	ND		ug/kg	1.7	0.57	1
1,2-Dichloropropane	ND		ug/kg	5.8	0.38	1
Dibromochloromethane	ND		ug/kg	1.7	0.29	1
1,1,2-Trichloroethane	ND		ug/kg	2.5	0.52	1
Tetrachloroethene	ND		ug/kg	1.7	0.50	1
Chlorobenzene	ND		ug/kg	1.7	0.58	1
Trichlorofluoromethane	ND		ug/kg	8.3	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.41	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	0.58	1
Bromodichloromethane	ND		ug/kg	1.7	0.51	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	0.38	1
1,1-Dichloropropene	ND		ug/kg	8.3	0.54	1
Bromoform	ND		ug/kg	6.6	0.39	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	0.50	1
Benzene	ND		ug/kg	1.7	0.32	1
Toluene	0.91	J	ug/kg	2.5	0.32	1
Ethylbenzene	ND		ug/kg	1.7	0.28	1
Vinyl chloride	ND		ug/kg	3.3	0.52	1
Chloroethane	ND		ug/kg	3.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.62	1
trans-1,2-Dichloroethene	ND		ug/kg	2.5	0.40	1
Trichloroethene	ND		ug/kg	1.7	0.50	1
1,2-Dichlorobenzene	ND		ug/kg	8.3	0.30	1
1,3-Dichlorobenzene	ND		ug/kg	8.3	0.36	1
1,4-Dichlorobenzene	ND		ug/kg	8.3	0.30	1
Methyl tert butyl ether	ND		ug/kg	3.3	0.25	1



Project Name: 48 GCA1702

Lab Number: 125146

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-03
 Client ID: SD17
 Sample Location: FLOWERFIELDS

Date Collected: 08/11/17 11:30
 Date Received: 08/11/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	3.3	0.58	1
o-Xylene	ND		ug/kg	3.3	0.56	1
Xylenes, Total	ND		ug/kg	3.3	0.56	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	0.57	1
Dibromomethane	ND		ug/kg	17	0.40	1
Styrene	ND		ug/kg	3.3	0.67	1
Dichlorodifluoromethane	ND		ug/kg	17	0.83	1
Acetone	98		ug/kg	17	3.8	1
2-Butanone	7.9	J	ug/kg	17	1.1	1
4-Methyl-2-pentanone	ND		ug/kg	17	0.40	1
1,2,3-Trichloropropane	ND		ug/kg	17	0.29	1
Bromochloromethane	ND		ug/kg	8.3	0.59	1
2,2-Dichloropropane	ND		ug/kg	8.3	0.75	1
1,2-Dibromoethane	ND		ug/kg	6.6	0.33	1
1,3-Dichloropropane	ND		ug/kg	8.3	0.30	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.7	0.53	1
Bromobenzene	ND		ug/kg	8.3	0.36	1
n-Butylbenzene	ND		ug/kg	1.7	0.38	1
sec-Butylbenzene	ND		ug/kg	1.7	0.36	1
tert-Butylbenzene	ND		ug/kg	8.3	0.41	1
o-Chlorotoluene	ND		ug/kg	8.3	0.37	1
p-Chlorotoluene	ND		ug/kg	8.3	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.3	0.66	1
Hexachlorobutadiene	ND		ug/kg	8.3	0.58	1
Isopropylbenzene	ND		ug/kg	1.7	0.32	1
p-Isopropyltoluene	ND		ug/kg	1.7	0.34	1
Naphthalene	1.0	J	ug/kg	8.3	0.23	1
n-Propylbenzene	ND		ug/kg	1.7	0.36	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.3	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.3	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	8.3	0.27	1
1,2,4-Trimethylbenzene	1.0	J	ug/kg	8.3	0.31	1
Freon-113	ND		ug/kg	33	0.85	1
p-Diethylbenzene	ND		ug/kg	6.6	6.6	1
p-Ethyltoluene	0.68	J	ug/kg	6.6	0.39	1
1,2,4,5-Tetramethylbenzene	0.28	J	ug/kg	6.6	0.26	1



Project Name: 48 GCA1702

Lab Number: 12514

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Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-03
Client ID: SD17
Sample Location: FLOWERFIELDS

Date Collected: 08/11/17 11:30
Date Received: 08/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	128		70-130
Dibromofluoromethane	107		70-130



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: 1725146 RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-05
 Client ID: SD14
 Sample Location: FLOWERFIELDS

Date Collected: 08/11/17 11:25
 Date Received: 08/11/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/17/17 05:38
 Analyst: MV
 Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	870	140	1
1,1-Dichloroethane	ND		ug/kg	130	24.	1
Chloroform	ND		ug/kg	130	32.	1
Carbon tetrachloride	ND		ug/kg	87	30.	1
1,2-Dichloropropane	ND		ug/kg	300	20.	1
Dibromochloromethane	ND		ug/kg	87	15.	1
1,1,2-Trichloroethane	ND		ug/kg	130	27.	1
Tetrachloroethene	ND		ug/kg	87	26.	1
Chlorobenzene	ND		ug/kg	87	30.	1
Trichlorofluoromethane	ND		ug/kg	440	36.	1
1,2-Dichloroethane	ND		ug/kg	87	21.	1
1,1,1-Trichloroethane	ND		ug/kg	87	30.	1
Bromodichloromethane	ND		ug/kg	87	27.	1
trans-1,3-Dichloropropene	ND		ug/kg	87	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	87	20.	1
1,1-Dichloropropene	ND		ug/kg	440	29.	1
Bromoform	ND		ug/kg	350	21.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	87	26.	1
Benzene	ND		ug/kg	87	17.	1
Toluene	56	J	ug/kg	130	17.	1
Ethylbenzene	ND		ug/kg	87	15.	1
Vinyl chloride	ND		ug/kg	170	27.	1
Chloroethane	ND		ug/kg	170	28.	1
1,1-Dichloroethene	ND		ug/kg	87	32.	1
trans-1,2-Dichloroethene	ND		ug/kg	130	21.	1
Trichloroethene	ND		ug/kg	87	26.	1
1,2-Dichlorobenzene	ND		ug/kg	440	16.	1
1,3-Dichlorobenzene	ND		ug/kg	440	19.	1
1,4-Dichlorobenzene	ND		ug/kg	440	16.	1
Methyl tert butyl ether	ND		ug/kg	170	13.	1



Project Name: 48 GCA1702

Lab Number: 1253

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-05
 Client ID: SD14
 Sample Location: FLOWERFIELDS

Date Collected: 08/11/17 11:25
 Date Received: 08/11/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
p/m-Xylene	ND		ug/kg	170	31.	1
o-Xylene	ND		ug/kg	170	29.	1
Xylenes, Total	ND		ug/kg	170	29.	1
cis-1,2-Dichloroethene	ND		ug/kg	87	30.	1
Dibromomethane	ND		ug/kg	870	21.	1
Styrene	ND		ug/kg	170	35.	1
Dichlorodifluoromethane	ND		ug/kg	870	44.	1
Acetone	ND		ug/kg	870	200	1
2-Butanone	ND		ug/kg	870	60.	1
4-Methyl-2-pentanone	ND		ug/kg	870	21.	1
1,2,3-Trichloropropane	ND		ug/kg	870	15.	1
Bromochloromethane	ND		ug/kg	440	31.	1
2,2-Dichloropropane	ND		ug/kg	440	39.	1
1,2-Dibromoethane	ND		ug/kg	350	17.	1
1,3-Dichloropropane	ND		ug/kg	440	16.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	87	28.	1
Bromobenzene	ND		ug/kg	440	19.	1
n-Butylbenzene	ND		ug/kg	87	20.	1
sec-Butylbenzene	ND		ug/kg	87	19.	1
tert-Butylbenzene	ND		ug/kg	440	22.	1
o-Chlorotoluene	ND		ug/kg	440	19.	1
p-Chlorotoluene	ND		ug/kg	440	16.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	440	34.	1
Hexachlorobutadiene	ND		ug/kg	440	30.	1
Isopropylbenzene	ND		ug/kg	87	17.	1
p-Isopropyltoluene	940		ug/kg	87	18.	1
Naphthalene	ND		ug/kg	440	12.	1
n-Propylbenzene	ND		ug/kg	87	19.	1
1,2,3-Trichlorobenzene	ND		ug/kg	440	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	440	19.	1
1,3,5-Trimethylbenzene	ND		ug/kg	440	14.	1
1,2,4-Trimethylbenzene	41	J	ug/kg	440	16.	1
Freon-113	ND		ug/kg	1700	45.	1
p-Diethylbenzene	ND		ug/kg	350	350	1
p-Ethyltoluene	25	J	ug/kg	350	20.	1
1,2,4,5-Tetramethylbenzene	34	J	ug/kg	350	14.	1



Project Name: 48 GCA1702

Lab Number: L1728146

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Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-05
Client ID: SD14
Sample Location: FLOWERFIELDS

Date Collected: 08/11/17 11:25
Date Received: 08/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130



Project Name: GCA1702

Lab Number: L1728146

Project Number: GCA1702

Report Date: 08/28/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/17/17 09:55
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1032757-10					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: GCA1702

Lab Number: L1728146

Project Number: GCA1702

Report Date: 08/28/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/17/17 09:55
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1032757-10					
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	0.15	J	ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22

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**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 08/17/17 09:55
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1032757-10					
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130



Project Name: GCA1702

Lab Number: L1728146

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**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/16/17 22:10
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG1032757-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/16/17 22:10
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG1032757-5					
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22



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Analytical Method: 1,8260C
Analytical Date: 08/16/17 22:10
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG1032757-5					
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16

Tentatively Identified Compounds

Total TIC Compounds	10.4	J	ug/kg
Unknown	5.01	J	ug/kg
Unknown	2.57	J	ug/kg
Unknown	2.84	J	ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130



Project Name: GCA1702

Lab Number: L1728146

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**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 08/16/17 22:10
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05 Batch: WG1032830-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1

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Analytical Method: 1,8260C
Analytical Date: 08/16/17 22:10
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05 Batch: WG1032830-5					
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
2-Butanone	ND		ug/kg	500	34.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
n-Propylbenzene	ND		ug/kg	50	11.

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Project Name: GCA1702

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 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 08/16/17 22:10
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05 Batch: WG1032830-5					
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
Freon-113	ND		ug/kg	1000	26.
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG1032757-3 WG1032757-4								
Methylene chloride	88		86		70-130	2		30
1,1-Dichloroethane	101		101		70-130	0		30
Chloroform	100		102		70-130	2		30
Carbon tetrachloride	117		117		70-130	0		30
1,2-Dichloropropane	94		94		70-130	0		30
Dibromochloromethane	105		107		70-130	2		30
1,1,2-Trichloroethane	93		94		70-130	1		30
Tetrachloroethene	105		104		70-130	1		30
Chlorobenzene	100		100		70-130	0		30
Trichlorofluoromethane	97		95		70-139	2		30
1,2-Dichloroethane	105		104		70-130	1		30
1,1,1-Trichloroethane	111		110		70-130	1		30
Bromodichloromethane	102		102		70-130	0		30
trans-1,3-Dichloropropene	108		109		70-130	1		30
cis-1,3-Dichloropropene	93		93		70-130	0		30
1,1-Dichloropropene	98		98		70-130	0		30
Bromoform	105		108		70-130	3		30
1,1,2,2-Tetrachloroethane	90		93		70-130	3		30
Benzene	89		90		70-130	1		30
Toluene	97		96		70-130	1		30
Ethylbenzene	101		100		70-130	1		30
Vinyl chloride	78		73		67-130	7		30
Chloroethane	69		66		50-151	4		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG1032757-3 WG1032757-4								
1,1-Dichloroethene	87		89		65-135	2		30
trans-1,2-Dichloroethene	92		93		70-130	1		30
Trichloroethene	95		96		70-130	1		30
1,2-Dichlorobenzene	101		103		70-130	2		30
1,3-Dichlorobenzene	102		102		70-130	0		30
1,4-Dichlorobenzene	102		103		70-130	1		30
Methyl tert butyl ether	96		97		66-130	1		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	95		96		70-130	1		30
cis-1,2-Dichloroethene	94		93		70-130	1		30
Dibromomethane	94		94		70-130	0		30
Styrene	97		97		70-130	0		30
Dichlorodifluoromethane	88		88		30-146	0		30
Acetone	114		103		54-140	10		30
2-Butanone	100		104		70-130	4		30
4-Methyl-2-pentanone	105		104		70-130	1		30
1,2,3-Trichloropropane	97		100		68-130	3		30
Bromochloromethane	92		92		70-130	0		30
2,2-Dichloropropane	109		108		70-130	1		30
1,2-Dibromoethane	96		97		70-130	1		30
1,3-Dichloropropane	97		98		69-130	1		30
1,1,1,2-Tetrachloroethane	109		107		70-130	2		30
Bromobenzene	100		101		70-130	1		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
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Lab Number: L1728146
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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG1032757-3 WG1032757-4								
n-Butylbenzene	104		104		70-130	0		30
sec-Butylbenzene	102		102		70-130	0		30
tert-Butylbenzene	108		109		70-130	1		30
o-Chlorotoluene	104		103		70-130	1		30
p-Chlorotoluene	107		109		70-130	2		30
1,2-Dibromo-3-chloropropane	101		108		68-130	7		30
Hexachlorobutadiene	118		119		67-130	1		30
Isopropylbenzene	105		106		70-130	1		30
p-Isopropyltoluene	106		107		70-130	1		30
Naphthalene	98		102		70-130	4		30
n-Propylbenzene	105		105		70-130	0		30
1,2,3-Trichlorobenzene	104		105		70-130	1		30
1,2,4-Trichlorobenzene	105		107		70-130	2		30
1,3,5-Trimethylbenzene	108		108		70-130	0		30
1,2,4-Trimethylbenzene	110		110		70-130	0		30
Freon-113	96		93		50-139	3		30
p-Diethylbenzene	104		104		70-130	0		30
p-Ethyltoluene	104		105		70-130	1		30
1,2,4,5-Tetramethylbenzene	108		108		70-130	0		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG1032757-3 WG1032757-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		115		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	107		106		70-130
Dibromofluoromethane	103		104		70-130



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1032757-8 WG1032757-9								
Methylene chloride	86		87		70-130	1		30
1,1-Dichloroethane	96		96		70-130	0		30
Chloroform	93		94		70-130	1		30
Carbon tetrachloride	100		100		70-130	0		30
1,2-Dichloropropane	94		94		70-130	0		30
Dibromochloromethane	98		99		70-130	1		30
1,1,2-Trichloroethane	93		92		70-130	1		30
Tetrachloroethene	99		99		70-130	0		30
Chlorobenzene	97		97		70-130	0		30
Trichlorofluoromethane	76		80		70-139	5		30
1,2-Dichloroethane	92		92		70-130	0		30
1,1,1-Trichloroethane	100		100		70-130	0		30
Bromodichloromethane	94		95		70-130	1		30
trans-1,3-Dichloropropene	103		104		70-130	1		30
cis-1,3-Dichloropropene	92		92		70-130	0		30
1,1-Dichloropropene	96		96		70-130	0		30
Bromoform	99		99		70-130	0		30
1,1,1,2-Tetrachloroethane	91		93		70-130	2		30
Benzene	88		88		70-130	0		30
Toluene	95		95		70-130	0		30
Ethylbenzene	99		99		70-130	0		30
Vinyl chloride	64	Q	66	Q	67-130	3		30
Chloroethane	62		61		50-151	2		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1032757-8 WG1032757-9								
1,1-Dichloroethene	87		88		65-135	1		30
trans-1,2-Dichloroethene	89		91		70-130	2		30
Trichloroethene	92		91		70-130	1		30
1,2-Dichlorobenzene	99		100		70-130	1		30
1,3-Dichlorobenzene	99		99		70-130	0		30
1,4-Dichlorobenzene	100		100		70-130	0		30
Methyl tert butyl ether	92		91		66-130	1		30
p/m-Xylene	98		97		70-130	1		30
o-Xylene	93		94		70-130	1		30
cis-1,2-Dichloroethene	91		92		70-130	1		30
Dibromomethane	87		88		70-130	1		30
Styrene	94		94		70-130	0		30
Dichlorodifluoromethane	80		80		30-146	0		30
Acetone	96		93		54-140	3		30
2-Butanone	93		94		70-130	1		30
4-Methyl-2-pentanone	101		101		70-130	0		30
1,2,3-Trichloropropane	95		96		68-130	1		30
Bromochloromethane	87		88		70-130	1		30
2,2-Dichloropropane	98		98		70-130	0		30
1,2-Dibromoethane	94		93		70-130	1		30
1,3-Dichloropropane	96		95		69-130	1		30
1,1,1,2-Tetrachloroethane	101		102		70-130	1		30
Bromobenzene	99		98		70-130	1		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1032757-8 WG1032757-9								
n-Butylbenzene	104		104		70-130	0		30
sec-Butylbenzene	103		103		70-130	0		30
tert-Butylbenzene	108		108		70-130	0		30
o-Chlorotoluene	104		102		70-130	2		30
p-Chlorotoluene	107		107		70-130	0		30
1,2-Dibromo-3-chloropropane	93		101		68-130	8		30
Hexachlorobutadiene	111		112		67-130	1		30
Isopropylbenzene	107		107		70-130	0		30
p-Isopropyltoluene	106		106		70-130	0		30
Naphthalene	100		100		70-130	0		30
n-Propylbenzene	106		106		70-130	0		30
1,2,3-Trichlorobenzene	103		101		70-130	2		30
1,2,4-Trichlorobenzene	104		103		70-130	1		30
1,3,5-Trimethylbenzene	107		106		70-130	1		30
1,2,4-Trimethylbenzene	109		108		70-130	1		30
Freon-113	93		94		50-139	1		30
p-Diethylbenzene	104		104		70-130	0		30
p-Ethyltoluene	105		105		70-130	0		30
1,2,4,5-Tetramethylbenzene	109		109		70-130	0		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1032757-8 WG1032757-9

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	105		104		70-130
4-Bromofluorobenzene	110		108		70-130
Dibromofluoromethane	100		98		70-130



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1032830-3 WG1032830-4								
Methylene chloride	88		86		70-130	2		30
1,1-Dichloroethane	101		101		70-130	0		30
Chloroform	100		102		70-130	2		30
Carbon tetrachloride	117		117		70-130	0		30
1,2-Dichloropropane	94		94		70-130	0		30
Dibromochloromethane	105		107		70-130	2		30
1,1,2-Trichloroethane	93		94		70-130	1		30
Tetrachloroethene	105		104		70-130	1		30
Chlorobenzene	100		100		70-130	0		30
Trichlorofluoromethane	97		95		70-139	2		30
1,2-Dichloroethane	105		104		70-130	1		30
1,1,1-Trichloroethane	111		110		70-130	1		30
Bromodichloromethane	102		102		70-130	0		30
trans-1,3-Dichloropropene	108		109		70-130	1		30
cis-1,3-Dichloropropene	93		93		70-130	0		30
1,1-Dichloropropene	98		98		70-130	0		30
Bromoform	105		108		70-130	3		30
1,1,1,2,2-Tetrachloroethane	90		93		70-130	3		30
Benzene	89		90		70-130	1		30
Toluene	97		96		70-130	1		30
Ethylbenzene	101		100		70-130	1		30
Vinyl chloride	78		73		67-130	7		30
Chloroethane	69		66		50-151	4		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1032830-3 WG1032830-4								
1,1-Dichloroethene	87		89		65-135	2		30
trans-1,2-Dichloroethene	92		93		70-130	1		30
Trichloroethene	95		96		70-130	1		30
1,2-Dichlorobenzene	101		103		70-130	2		30
1,3-Dichlorobenzene	102		102		70-130	0		30
1,4-Dichlorobenzene	102		103		70-130	1		30
Methyl tert butyl ether	96		97		66-130	1		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	95		96		70-130	1		30
cis-1,2-Dichloroethene	94		93		70-130	1		30
Dibromomethane	94		94		70-130	0		30
Styrene	97		97		70-130	0		30
Dichlorodifluoromethane	88		88		30-146	0		30
Acetone	114		103		54-140	10		30
2-Butanone	100		104		70-130	4		30
4-Methyl-2-pentanone	105		104		70-130	1		30
1,2,3-Trichloropropane	97		100		68-130	3		30
Bromochloromethane	92		92		70-130	0		30
2,2-Dichloropropane	109		108		70-130	1		30
1,2-Dibromoethane	96		97		70-130	1		30
1,3-Dichloropropane	97		98		69-130	1		30
1,1,1,2-Tetrachloroethane	109		107		70-130	2		30
Bromobenzene	100		101		70-130	1		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1032830-3 WG1032830-4								
n-Butylbenzene	104		104		70-130	0		30
sec-Butylbenzene	102		102		70-130	0		30
tert-Butylbenzene	108		109		70-130	1		30
o-Chlorotoluene	104		103		70-130	1		30
p-Chlorotoluene	107		109		70-130	2		30
1,2-Dibromo-3-chloropropane	101		108		68-130	7		30
Hexachlorobutadiene	118		119		67-130	1		30
Isopropylbenzene	105		106		70-130	1		30
p-Isopropyltoluene	106		107		70-130	1		30
Naphthalene	98		102		70-130	4		30
n-Propylbenzene	105		105		70-130	0		30
1,2,3-Trichlorobenzene	104		105		70-130	1		30
1,2,4-Trichlorobenzene	105		107		70-130	2		30
1,3,5-Trimethylbenzene	108		108		70-130	0		30
1,2,4-Trimethylbenzene	110		110		70-130	0		30
Freon-113	96		93		50-139	3		30
p-Diethylbenzene	104		104		70-130	0		30
p-Ethyltoluene	104		105		70-130	1		30
1,2,4,5-Tetramethylbenzene	108		108		70-130	0		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05 Batch: WG1032830-3 WG1032830-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		115		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	107		106		70-130
Dibromofluoromethane	103		104		70-130



SEMIVOLATILES



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: L1728146 RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-02
 Client ID: SD13
 Sample Location: FLOWERFIELDS
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/14/17 17:32
 Analyst: KV
 Percent Solids: 37%

Date Collected: 08/11/17 12:00
 Date Received: 08/11/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/13/17 12:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	350	46.	1
Fluoranthene	4100		ug/kg	260	51.	1
Benzo(a)anthracene	1500		ug/kg	260	50.	1
Benzo(a)pyrene	2000		ug/kg	350	110	1
Benzo(b)fluoranthene	4100		ug/kg	260	74.	1
Benzo(k)fluoranthene	950		ug/kg	260	70.	1
Chrysene	2700		ug/kg	260	46.	1
Anthracene	240	J	ug/kg	260	86.	1
Benzo(ghi)perylene	1800		ug/kg	350	52.	1
Fluorene	ND		ug/kg	440	43.	1
Phenanthrene	1100		ug/kg	260	54.	1
Dibenzo(a,h)anthracene	370		ug/kg	260	51.	1
Indeno(1,2,3-cd)pyrene	1800		ug/kg	350	61.	1
Pyrene	3500		ug/kg	260	44.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	62		18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: L1728146 RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-03
 Client ID: SD17
 Sample Location: FLOWERFIELDS
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/14/17 18:22
 Analyst: KV
 Percent Solids: 77%

Date Collected: 08/11/17 11:30
 Date Received: 08/11/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/13/17 12:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	170	22.	1
Fluoranthene	7900		ug/kg	130	24.	1
Benzo(a)anthracene	2700		ug/kg	130	24.	1
Benzo(a)pyrene	2800		ug/kg	170	52.	1
Benzo(b)fluoranthene	5700		ug/kg	130	36.	1
Benzo(k)fluoranthene	1400		ug/kg	130	34.	1
Chrysene	4200		ug/kg	130	22.	1
Anthracene	320		ug/kg	130	42.	1
Benzo(ghi)perylene	3000		ug/kg	170	25.	1
Fluorene	140	J	ug/kg	210	21.	1
Phenanthrene	3300		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	720		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	3200		ug/kg	170	30.	1
Pyrene	6300		ug/kg	130	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	44		23-120
2-Fluorobiphenyl	47		30-120
4-Terphenyl-d14	36		18-120



NYSCEF DOC NO: 48 Project Name: GCA1702

Lab Number: L1728146 RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-05
 Client ID: SD14
 Sample Location: FLOWERFIELDS
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/14/17 17:57
 Analyst: KV
 Percent Solids: 66%

Date Collected: 08/11/17 11:25
 Date Received: 08/11/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 08/13/17 12:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	200	26.	1
Fluoranthene	2800		ug/kg	150	29.	1
Benzo(a)anthracene	900		ug/kg	150	28.	1
Benzo(a)pyrene	1000		ug/kg	200	61.	1
Benzo(b)fluoranthene	2000		ug/kg	150	42.	1
Benzo(k)fluoranthene	620		ug/kg	150	40.	1
Chrysene	1400		ug/kg	150	26.	1
Anthracene	130	J	ug/kg	150	49.	1
Benzo(ghi)perylene	900		ug/kg	200	29.	1
Fluorene	54	J	ug/kg	250	24.	1
Phenanthrene	960		ug/kg	150	30.	1
Dibenzo(a,h)anthracene	220		ug/kg	150	29.	1
Indeno(1,2,3-cd)pyrene	1000		ug/kg	200	35.	1
Pyrene	2200		ug/kg	150	25.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	71		30-120
4-Terphenyl-d14	66		18-120



NYSCEF DOC. NO. 48

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 08/16/17 09:50
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 08/13/17 00:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05 Batch: WG1031504-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	99	19.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: GCA1702

Project Number: GCA1702

Lab Number: L1728146

Report Date: 08/28/17

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 08/16/17 09:50
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 08/13/17 00:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05 Batch: WG1031504-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	87		18-120



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05 Batch: WG1031504-2 WG1031504-3								
Acenaphthene	72		77		31-137	7		50
Fluoranthene	82		90		40-140	9		50
Benzo(a)anthracene	81		88		40-140	8		50
Benzo(a)pyrene	88		98		40-140	11		50
Benzo(b)fluoranthene	89		98		40-140	10		50
Benzo(k)fluoranthene	80		88		40-140	10		50
Chrysene	77		83		40-140	8		50
Anthracene	78		85		40-140	9		50
Benzo(ghi)perylene	86		93		40-140	8		50
Fluorene	79		86		40-140	8		50
Phenanthrene	75		83		40-140	10		50
Dibenzo(a,h)anthracene	86		93		40-140	8		50
Indeno(1,2,3-cd)pyrene	90		96		40-140	6		50
Pyrene	82		88		35-142	7		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	83		89		25-120
Phenol-d6	84		93		10-120
Nitrobenzene-d5	77		84		23-120
2-Fluorobiphenyl	76		82		30-120
2,4,6-Tribromophenol	85		90		10-136
4-Terphenyl-d14	77		83		18-120



METALS



NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L1728146

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-02
 Client ID: SD13
 Sample Location: FLOWERFIELDS
 Matrix: Soil
 Percent Solids: 37%

Date Collected: 08/11/17 12:00
 Date Received: 08/11/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	2.02		mg/kg	1.01	0.210	1	08/12/17 05:30	08/14/17 15:05	EPA 3050B	1,6010C	AB
Barium, Total	39.6		mg/kg	1.01	0.176	1	08/12/17 05:30	08/14/17 15:05	EPA 3050B	1,6010C	AB
Beryllium, Total	0.323	J	mg/kg	0.504	0.033	1	08/12/17 05:30	08/14/17 15:05	EPA 3050B	1,6010C	AB
Cadmium, Total	1.17		mg/kg	1.01	0.099	1	08/12/17 05:30	08/14/17 15:05	EPA 3050B	1,6010C	AB
Chromium, Total	22.6		mg/kg	1.01	0.097	1	08/12/17 05:30	08/14/17 15:05	EPA 3050B	1,6010C	AB
Copper, Total	104		mg/kg	1.01	0.260	1	08/12/17 05:30	08/14/17 15:05	EPA 3050B	1,6010C	AB
Lead, Total	53.2		mg/kg	5.04	0.270	1	08/12/17 05:30	08/14/17 15:05	EPA 3050B	1,6010C	AB
Mercury, Total	0.08	J	mg/kg	0.17	0.04	1	08/12/17 07:30	08/14/17 17:32	EPA 7471B	1,7471B	EA
Nickel, Total	15.0		mg/kg	2.52	0.244	1	08/12/17 05:30	08/14/17 15:05	EPA 3050B	1,6010C	AB
Selenium, Total	0.414	J	mg/kg	2.02	0.260	1	08/12/17 05:30	08/14/17 15:05	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	1.01	0.285	1	08/12/17 05:30	08/14/17 15:05	EPA 3050B	1,6010C	AB

NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L1728146

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-03
 Client ID: SD17
 Sample Location: FLOWERFIELDS
 Matrix: Soil
 Percent Solids: 77%

Date Collected: 08/11/17 11:30
 Date Received: 08/11/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	1.55		mg/kg	0.490	0.102	1	08/12/17 05:30	08/14/17 15:10	EPA 3050B	1,6010C	AB
Barium, Total	17.2		mg/kg	0.490	0.085	1	08/12/17 05:30	08/14/17 15:10	EPA 3050B	1,6010C	AB
Beryllium, Total	0.083	J	mg/kg	0.245	0.016	1	08/12/17 05:30	08/14/17 15:10	EPA 3050B	1,6010C	AB
Cadmium, Total	0.383	J	mg/kg	0.490	0.048	1	08/12/17 05:30	08/14/17 15:10	EPA 3050B	1,6010C	AB
Chromium, Total	6.83		mg/kg	0.490	0.047	1	08/12/17 05:30	08/14/17 15:10	EPA 3050B	1,6010C	AB
Copper, Total	27.2		mg/kg	0.490	0.126	1	08/12/17 05:30	08/14/17 15:10	EPA 3050B	1,6010C	AB
Lead, Total	15.9		mg/kg	2.45	0.131	1	08/12/17 05:30	08/14/17 15:10	EPA 3050B	1,6010C	AB
Mercury, Total	0.02	J	mg/kg	0.08	0.02	1	08/12/17 07:30	08/14/17 17:34	EPA 7471B	1,7471B	EA
Nickel, Total	3.97		mg/kg	1.23	0.119	1	08/12/17 05:30	08/14/17 15:10	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	0.981	0.126	1	08/12/17 05:30	08/14/17 15:10	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.490	0.139	1	08/12/17 05:30	08/14/17 15:10	EPA 3050B	1,6010C	AB

NYSCEF DOC. NO. 48

Project Name: GCA1702

Lab Number: L1728146

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-05
 Client ID: SD14
 Sample Location: FLOWERFIELDS
 Matrix: Soil
 Percent Solids: 66%

Date Collected: 08/11/17 11:25
 Date Received: 08/11/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Arsenic, Total	1.66		mg/kg	0.580	0.121	1	08/12/17 05:30	08/14/17 15:40	EPA 3050B	1,6010C	AB
Barium, Total	31.2		mg/kg	0.580	0.101	1	08/12/17 05:30	08/14/17 15:40	EPA 3050B	1,6010C	AB
Beryllium, Total	0.192	J	mg/kg	0.290	0.019	1	08/12/17 05:30	08/14/17 15:40	EPA 3050B	1,6010C	AB
Cadmium, Total	0.522	J	mg/kg	0.580	0.057	1	08/12/17 05:30	08/14/17 15:40	EPA 3050B	1,6010C	AB
Chromium, Total	10.7		mg/kg	0.580	0.056	1	08/12/17 05:30	08/14/17 15:40	EPA 3050B	1,6010C	AB
Copper, Total	19.8		mg/kg	0.580	0.150	1	08/12/17 05:30	08/14/17 15:40	EPA 3050B	1,6010C	AB
Lead, Total	26.2		mg/kg	2.90	0.156	1	08/12/17 05:30	08/14/17 15:40	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.10	0.02	1	08/12/17 07:30	08/14/17 17:36	EPA 7471B	1,7471B	EA
Nickel, Total	7.26		mg/kg	1.45	0.140	1	08/12/17 05:30	08/14/17 15:40	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.16	0.150	1	08/12/17 05:30	08/14/17 15:40	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.580	0.164	1	08/12/17 05:30	08/14/17 15:40	EPA 3050B	1,6010C	AB



NYSCEF DOC. NO. 48
Project Name: GCA1702

RECEIVED NYSCEF: 06/14/2022
Lab Number: P1928148

Project Number: GCA1702

Report Date: 08/28/17

**Method Blank Analysis
 Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-03,05 Batch: WG1031340-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/12/17 05:30	08/14/17 10:22	1,6010C	PS
Barium, Total	ND		mg/kg	0.400	0.070	1	08/12/17 05:30	08/14/17 10:22	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/12/17 05:30	08/14/17 10:22	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/12/17 05:30	08/14/17 10:22	1,6010C	PS
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/12/17 05:30	08/14/17 10:22	1,6010C	PS
Copper, Total	ND		mg/kg	0.400	0.103	1	08/12/17 05:30	08/14/17 10:22	1,6010C	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	08/12/17 05:30	08/14/17 10:22	1,6010C	PS
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/12/17 05:30	08/14/17 10:22	1,6010C	PS
Selenium, Total	0.132	J	mg/kg	0.800	0.103	1	08/12/17 05:30	08/14/17 10:22	1,6010C	PS
Silver, Total	ND		mg/kg	0.400	0.113	1	08/12/17 05:30	08/14/17 10:22	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-03,05 Batch: WG1031346-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/12/17 07:30	08/14/17 17:15	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG1031340-2 SRM Lot Number: D093-540								
Arsenic, Total	95		-		70-130	-		
Barium, Total	88		-		83-117	-		
Beryllium, Total	91		-		83-117	-		
Cadmium, Total	91		-		83-117	-		
Chromium, Total	88		-		80-120	-		
Copper, Total	90		-		82-118	-		
Lead, Total	86		-		82-117	-		
Nickel, Total	88		-		83-117	-		
Selenium, Total	93		-		78-122	-		
Silver, Total	93		-		76-124	-		
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 Batch: WG1031346-2 SRM Lot Number: D093-540								
Mercury, Total	76		-		72-128	-		



**Matrix Spike Analysis
 Batch Quality Control**

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG1031340-3 QC Sample: L1728145-01 Client ID: MS Sample												
Arsenic, Total	3.18	10.1	13.6	103	-	-	-	-	75-125	-	-	20
Barium, Total	20.7	168	201	107	-	-	-	-	75-125	-	-	20
Beryllium, Total	0.119J	4.2	4.29	102	-	-	-	-	75-125	-	-	20
Cadmium, Total	0.485J	4.28	5.09	119	-	-	-	-	75-125	-	-	20
Chromium, Total	5.63	16.8	23.5	106	-	-	-	-	75-125	-	-	20
Copper, Total	7.91	21	31.9	114	-	-	-	-	75-125	-	-	20
Lead, Total	27.4	42.8	71.8	104	-	-	-	-	75-125	-	-	20
Nickel, Total	5.15	42	42.5	89	-	-	-	-	75-125	-	-	20
Selenium, Total	ND	10.1	10.1	100	-	-	-	-	75-125	-	-	20
Silver, Total	ND	25.2	28.0	111	-	-	-	-	75-125	-	-	20
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG1031346-3 QC Sample: L1728208-01 Client ID: MS Sample												
Mercury, Total	0.03J	0.141	0.14	99	-	-	-	-	80-120	-	-	20



Lab Duplicate Analysis
Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG1031340-4 QC Sample: L1728145-01 Client ID: DUP Sample						
Arsenic, Total	3.18	2.95	mg/kg	8		20
Barium, Total	20.7	24.5	mg/kg	17		20
Beryllium, Total	0.119J	0.135J	mg/kg	NC		20
Cadmium, Total	0.485J	0.710J	mg/kg	NC		20
Chromium, Total	5.63	6.71	mg/kg	18		20
Copper, Total	7.91	9.03	mg/kg	13		20
Lead, Total	27.4	39.3	mg/kg	36	Q	20
Nickel, Total	5.15	5.95	mg/kg	14		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 02-03,05 QC Batch ID: WG1031346-4 QC Sample: L1728208-01 Client ID: DUP Sample						
Mercury, Total	0.03J	0.02J	mg/kg	NC		20



**INORGANICS
&
MISCELLANEOUS**



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1728146

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-02
Client ID: SD13
Sample Location: FLOWERFIELDS
Matrix: Soil

Date Collected: 08/11/17 12:00
Date Received: 08/11/17
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	37.3		%	0.100	NA	1	-	08/12/17 10:59	121,2540G	RI



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RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1728146

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-03
Client ID: SD17
Sample Location: FLOWERFIELDS
Matrix: Soil

Date Collected: 08/11/17 11:30
Date Received: 08/11/17
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	77.1		%	0.100	NA	1	-	08/12/17 10:59	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1702

Lab Number: L1728146

Project Number: GCA1702

Report Date: 08/28/17

SAMPLE RESULTS

Lab ID: L1728146-05
Client ID: SD14
Sample Location: FLOWERFIELDS
Matrix: Soil

Date Collected: 08/11/17 11:25
Date Received: 08/11/17
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	65.8		%	0.100	NA	1	-	08/12/17 10:59	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: GCA1702
Project Number: GCA1702

Lab Number: L1728146
Report Date: 08/28/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03,05 QC Batch ID: WG1031383-1 QC Sample: L1728099-01 Client ID: DUP Sample						
Solids, Total	81.4	81.8	%	0		20



NYSCEF DOC NO: 48 **Project Name:** GCA1702

Lab Number: C73346 EPC/MSD/NYSCEF: 06/14/2022

Project Number: GCA1702

Report Date: 08/28/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1728146-01A	Vial MeOH preserved	A	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L1728146-01B	Vial water preserved	A	NA		3.0	Y	Absent	12-AUG-17 06:16	HOLD-8260HLW(14)
L1728146-01C	Vial water preserved	A	NA		3.0	Y	Absent	12-AUG-17 06:16	HOLD-8260HLW(14)
L1728146-01D	Plastic 2oz unpreserved for TS	A	NA		3.0	Y	Absent		HOLD-WETCHEM()
L1728146-01E	Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		HOLD-METAL(180)
L1728146-01F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		HOLD-8270(14)
L1728146-02A	Vial MeOH preserved	A	NA		3.0	Y	Absent		NYSUFFOLK-8260HLW(14)
L1728146-02B	Vial water preserved	A	NA		3.0	Y	Absent	12-AUG-17 06:16	NYSUFFOLK-8260HLW(14)
L1728146-02C	Vial water preserved	A	NA		3.0	Y	Absent	12-AUG-17 06:16	NYSUFFOLK-8260HLW(14)
L1728146-02D	Plastic 2oz unpreserved for TS	A	NA		3.0	Y	Absent		TS(7)
L1728146-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1728146-02F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		NYSUFFOLK-8270(14)
L1728146-03A	Vial MeOH preserved	A	NA		3.0	Y	Absent		NYSUFFOLK-8260HLW(14)
L1728146-03B	Vial water preserved	A	NA		3.0	Y	Absent	12-AUG-17 06:16	NYSUFFOLK-8260HLW(14)
L1728146-03C	Vial water preserved	A	NA		3.0	Y	Absent	12-AUG-17 06:16	NYSUFFOLK-8260HLW(14)
L1728146-03D	Plastic 2oz unpreserved for TS	A	NA		3.0	Y	Absent		TS(7)
L1728146-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1728146-03F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		NYSUFFOLK-8270(14)
L1728146-04A	Vial MeOH preserved	A	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L1728146-04B	Vial water preserved	A	NA		3.0	Y	Absent	12-AUG-17 06:16	HOLD-8260HLW(14)
L1728146-04C	Vial water preserved	A	NA		3.0	Y	Absent	12-AUG-17 06:16	HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days



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Project Name: GCA1702

FILED BY: NYSCEF: 06/14/2022
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Report Date: 08/28/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1728146-04D	Plastic 2oz unpreserved for TS	A	NA		3.0	Y	Absent		HOLD-WETCHEM()
L1728146-04E	Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		HOLD-METAL(180)
L1728146-04F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		HOLD-8270(14)
L1728146-05A	Vial MeOH preserved	A	NA		3.0	Y	Absent		NYSUFFOLK-8260HLW(14)
L1728146-05B	Vial water preserved	A	NA		3.0	Y	Absent	12-AUG-17 06:16	NYSUFFOLK-8260HLW(14)
L1728146-05C	Vial water preserved	A	NA		3.0	Y	Absent	12-AUG-17 06:16	NYSUFFOLK-8260HLW(14)
L1728146-05D	Plastic 2oz unpreserved for TS	A	NA		3.0	Y	Absent		TS(7)
L1728146-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1728146-05F	Glass 120ml/4oz unpreserved	A	NA		3.0	Y	Absent		NYSUFFOLK-8270(14)

*Values in parentheses indicate holding time in days



Project Name: GCA1702**Lab Number:**

L1728148 Page 1-1298

Project Number: GCA1702**Report Date:** 08/28/17**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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers

Project Name: GCA1702**Lab Number:****Project Number:** GCA1702**Report Date:** 08/28/17**Data Qualifiers**

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.
- 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: GCA1702

Lab Number: L1728148

Page 1-1300

Project Number: GCA1702

Report Date: 08/28/17

REFERENCES

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

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.



Alpha Analytical Inc.

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Page 1-1301

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPW

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

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; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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, SM9221E.

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. EPA 245.1 Hg.

Non-Potable Water

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

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

**GYRODYNE PROPERTY (CATERING FACILITY)
1 FLOWERFIELD
ST. JAMES, NEW YORK**

REMEDIATION REPORT

SUBMITTED TO:



Suffolk County Department of Health Services
Office of Pollution Control
15 Horseblock Place
Farmingville, New York 11738

ON BEHALF OF:

Gyrodyne, LLC
1 Flowerfield
St. James, New York 11780

PREPARED BY:



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PWGC Project Number: GCA1704

APRIL 2018

REMEDIATION REPORT
1 FLOWERFIELD, ST. JAMES, NEW YORK (CATERING FACILITY)

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Table 1	Soil Sample Analytical Data Summary – Volatile Organic Compounds
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APPENDICES

Appendix A	Laboratory Reports
Appendix B	Waste Manifests

1.0 INTRODUCTION

This Remediation Report has been prepared by P.W. Grosser Consulting Inc. (PWGC), on behalf of Gyrodyne, LLC, for the property located at 1 Flowerfield (Catering Facility) in St. James, New York (subject property). This report documents the results of remedial activities performed at the above-referenced site. The scope of work was based upon PWGC's Phase II Environmental Site Assessment (ESA) for the site, additional sampling results, and the requirements of the Suffolk County Department of Health Services (SCDHS) for the subject site.

1.1 Site Description

The subject property is located at 1 Flowerfield (aka 199 Mills Pond Road) in the Hamlet of St. James, New York. The site is located in the Town of Smithtown and Suffolk County. The property is identified in the Suffolk County Tax Map as 0800-040.00-02.00-013.004.

The site measures approximately 12.6 acres, and is occupied by the Catering Facility Main Building, three residential houses (Houses A, B and C), and a Garage.

- Main Building – Single story building, with no basement. Used as Catering Facility ballroom, dining room, bars, kitchens.
- House A – Two story building with basement. Basement contains boiler and laundry room. First floor used for Catering Facility storage. Second floor is a residential apartment.
- House B – Single story building with basement. Basement is used for Catering Facility storage. First floor is used as Catering Facility storage and a suite for Catering Facility clients.
- House C – Dilapidated, abandoned building. Not accessible for inspection.
- Garage – Single story building with no basement. Used for storage of catering, maintenance, and landscaping equipment.

A Vicinity Map is included as **Figure 1**; a site plan is included as **Figure 2**.

1.1 Environmental History

1.1.1 Phase I ESA

PWGC performed a Phase I ESA for the site in June 2017. PWGC's Phase I ESA identified the following Recognized Environmental Concerns (REC) for the Catering Facility portion of the subject property:

- The current and historical usage of the site as a catering facility includes the presence of two kitchens where commercial grade degreasing/cleaning compounds and disinfectants are likely to be used. This, in conjunction with the presence of two on-site sanitary systems, represents

pathways for such substances to potentially have been released to the environment.

- One 1,000-gallon fuel oil underground storage tank (UST) is present at the site (House B). This UST passed a tightness test in 1994. PWGC was unable to locate records for more recent tightness testing of this tank. Based on the apparent age of this tank (20+ years), and lack of recent testing data, it is possible that the tank has leaked, releasing petroleum to the subsurface.
- Although no evidence of USTs were identified, based on their apparent age, it is possible that out of service USTs may be present at the Catering Facility Building, House A, and/or House C.

1.1.2 Phase II ESA

Based on the findings of the Phase I ESA, PWGC conducted a Phase II ESA for the subject property in September 2017. The Phase II ESA consisted of the following:

- A geophysical survey to identify potential USTs and/or confirm that potential historical USTs have been removed from the Catering Facility Main Building, and House A.
- Collection and analysis of soil samples from UST and/or former UST locations identified by the geophysical survey to confirm that a petroleum release has not occurred.
- Soil borings in the vicinity of the House B UST to evaluate whether a petroleum release has occurred.
- Characterization sampling of the Catering Facility Main Building sanitary systems.

Based on the results of the Phase II ESA, PWGC offered the following conclusions:

- A geophysical survey was performed throughout areas surrounding the three onsite buildings and garage. House B's UST was marked out. A potential former excavation area was located near the Main Building. No metallic anomalies consistent with USTs were identified. The area around House C was inaccessible due to heavy underbrush.
- Three soil borings were performed throughout the site in areas of concern. Two soil borings were installed in the vicinity of House B's UST and one soil boring was installed near the potential former excavation area near the Main Building.
- Petroleum impact was not identified in soils collected from the vicinity of House B's UST or the potential former excavation area.
- The geophysical survey determined that the sanitary systems for both kitchens within the Main Building were interconnected. Each of the 12 sanitary structures accessible at grade were sampled. Six primary structure samples and two secondary structure samples were submitted for laboratory analysis.

- VOCs and/or metals were detected at concentrations exceeding their respective SCDHS Action Levels in samples collected from seven sanitary structures at the site.

1.1.3 Remediation Work Plan

The September 2017 Phase II ESA was submitted to SCDHS. Based upon their review of the Phase II ESA, SCDHS required characterization sampling of nine additional sanitary structures. Sample results for three of these structures exceeded SCDHS Action Levels and they were added to the list of structures to be remediated. Following completion of additional sampling, SCDHS issued a Notice to Remediate (NTR) indicating that:

- Impacted structures identified in the Phase II ESA, and by additional characterization sampling be properly remediated.

In December 2017, PWGC submitted a Work Plan to SCDHS documenting the additional characterization sampling described above, and detailing a remedial scope of work to address the requirements of the NTR. The Work Plan was approved by SCDHS in January 2018.

A copy of the NTR is included in **Appendix A**.

2.0 REMEDIAL ACTIVITIES

Based on the Phase II ESA, and SCDHS directive PWGC performed remedial activities at the site consisting of the following:

- Remediation of onsite sanitary structures GT001, GT002, ST001, ST002, ST003, CP001, CP002, CP003, CP004, CP010, and CP011.

2.1 Remediation

Based on the findings of PWGC's Phase II ESA, onsite sanitary structures GT001, GT002, ST001, ST002, ST003, CP001, CP002, CP003, CP004, CP010, and CP011 were remediated on March 5, March 6, and March 14, 2018 in accordance with SCDHS requirements. Remedial activities were performed by Clearbrook of Deer Park, New York under the oversight of PWGC personnel. During remediation, the following discoveries were made regarding the sanitary system on site:

- CP004 is a second manhole cover for GT001. These have been combined and renamed as GT001 on the site plan.
- CP001 is a non-leaching structure (septic tank).
- CP002 and CP003 are connected as one septic tank with a baffle wall between them. The bottom of the tank under manhole cover CP003 was cracked and degrading, thus it was treated as a leaching structure. CP002 and CP003 have been combined and renamed ST004 on the site plan.

2.1.1 Waste Removal

A vacuum powered pump truck was used to remove liquids from the previously mentioned structures. Following removal of liquids, a Guzzler was used to remove impacted sludge and sediment from the impacted structures until all solid material was removed or until clean native material was encountered, dependent on the nature of the structure.

2.1.2 Endpoint Sample Collection

Following removal of sediments from the remediated structures, a confirmatory endpoint soil sample was collected from the base of cesspools CP010, and CP011, and septic tank ST004 to document the effectiveness of the cleanout. Endpoint samples were collected using a properly decontaminated hand auger, placed in laboratory supplied glassware, and stored in a cooler on ice for transport to the laboratory. SCDHS personnel were onsite to inspect each structure following remediation and to observe sampling of the structures.

As structures GT001, GT002, ST001, ST002, and CP001 are solid bottomed structures; no confirmatory endpoint samples were required.

2.1.3 Laboratory Analysis

Samples were collected in pre-cleaned laboratory supplied glassware and stored in a cooler packed with ice for shipment to the analytical laboratory. Samples were delivered under proper chain-of-custody procedures to Alpha Analytical, Inc. of Westborough, Massachusetts, a NYSDOH ELAP certified laboratory.

Endpoint sample analysis was targeted based upon which compounds exceeded SCDHS Action Levels in each structure. As such, samples were collected for these structures based on the following:

Impacted Structures	Contaminants Targeted
CP010 and CP011	VOCs
CP003 (aka ST004)	VOCs, Metals

2.1.4 Analytical Results

Endpoint soil sample results were compared to the Cleanup Objectives specified in SCDHS SOP 9-95, Pumpout and Soil Cleanup Criteria. Analytical data is summarized in **Tables 1 and 2**; laboratory analytical reports are included in **Appendix B**.

Endpoint soil samples collected from the structures did not contain impact above SCDHS Cleanup Objectives. As such, it appears the remedial effort on these structures were successful.

2.2 Waste Disposal

Wastes generated during UIC remediation were disposed of at properly permitted facilities, as detailed below. Copies of waste manifests and disposal recipes are included as **Appendix C**.

2.2.1 Soil Disposal

An estimated total of 37.1 tons of non-hazardous sludge and sediment were generated during remediation. Non-hazardous solids were disposed of at Clearbrook of Deer Park New York.

2.2.2 Liquid Disposal

An estimated of 30,000 gallons of non-hazardous liquids were generated during remediation. Liquids were disposed of at Clear Flo Technologies, Inc. of North Lindenhurst, New York.

3.0 CONCLUSIONS AND RECOMMENDATIONS

PWGC implemented a remediation program for UIC structures at the property located at 1 Flowerfield (Catering Facility), St. James, New York. The scope of work was based upon PWGC's Phase II ESA for the site and the requirements of SCDHS for the subject site, and consisted of:

- Remediation of onsite sanitary structures GT001, GT002, ST001, ST002, ST003, CP001, CP002, CP003, CP004, CP010, and CP011.

3.1 Remedial Activities

The scope of work for remediation consisted of the removal of liquids and sediment from two grease traps, five septic tanks, and two cesspools containing impact exceeding SCDHS Action Levels. Remedial activities were performed by Clearbrook of Deer Park, New York under the oversight of PWGC personnel. An estimated total of 37.1 tons of non-hazardous soils were generated during remediation. Non-hazardous soils were disposed of at Clearbrook of Deer Park New York. An estimated total of 30,000 gallons of non-hazardous liquids were generated during remediation. Liquids were disposed of at Clear Flo Technologies, Inc. of North Lindenhurst, New York, New York.

3.2 Endpoint Sample Data

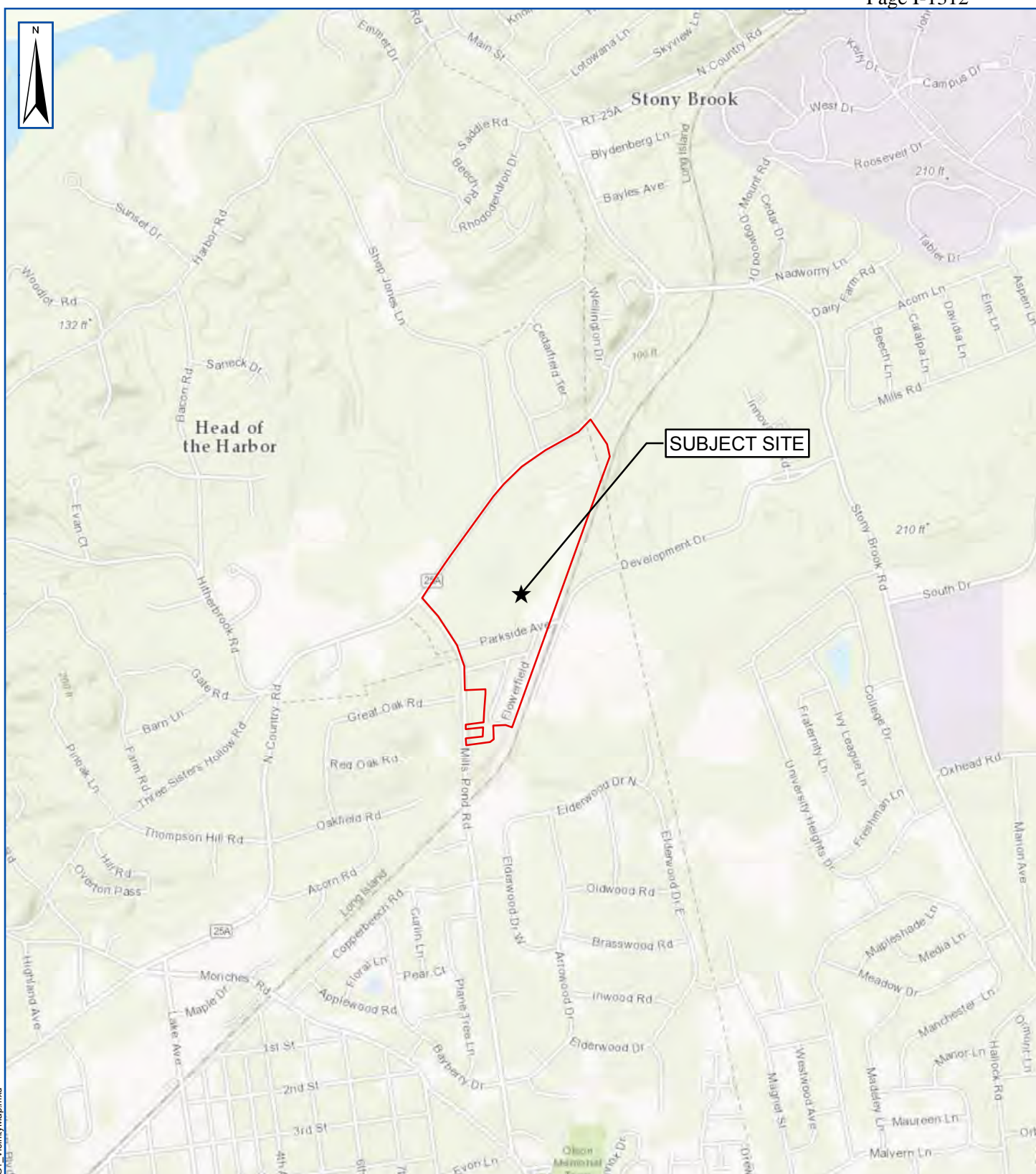
Confirmatory endpoint soil samples were collected from the base of structures CP010, CP011, and CP003 (aka ST004) to document the effectiveness of the cleanout. As structures GT001, GT002, ST001, ST002, ST003, and CP001 are solid bottom (non-leaching) structures, no endpoint sample was necessary. Endpoint sample analysis was targeted based upon which compounds exceeded SCDHS Action Levels in each structure.

Contaminant concentrations in the endpoint soil samples collected from these structures were below SCDHS Cleanup Objectives.

3.3 Recommendations

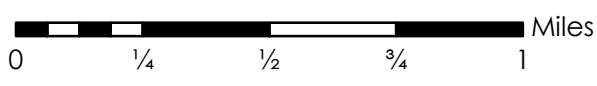
Based on endpoint sample results, it appears that the remedial effort was successful, and PWGC recommends that a No Further Action letter be issued for the site.

FIGURES



SUBJECT SITE

SUBJECT SITE VICINITY
FLOWERFIELD INDUSTRIAL PARK
ST JAMES, NY



Project:	GCA1701
Date:	8/17/2017
Designed by:	TM
Drawn by:	JCG
Approved by:	TM
Figure No:	1

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Document Path: G:\Projects\E-L\GCA\mapfiles\FIG1_VicinityMap.mxd



House C

•	Manhole Cover	- - - -	Piping
⊗	Cesspool	■	UST
■	Grease Trap	□	Building
●	Septic Tank	□	Pond
⊕	Storm Drain		

Note: Manhole covers on ST004 and GT001 had previously been identified as CP002, CP003 (manhole covers on ST004) and CP004 (manhole cover on GT001)



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REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

Project:	GCA1705	Designed by:	KC
Date:	3/16/2018	Drawn by:	JCG
Scale:	AS SHOWN	Approved by:	TM

SITE PLAN

FLOWERFIELD CATERING
ST JAMES, NY

FIGURE NO:
2



TABLES

Table 1

Soil Sample Analytical Results - Volatile Organic Compounds
Gyrodyne Property (Catering Hall)
St. James, New York

CLIENT SAMPLE ID: LABORATORY ID: SAMPLING DATE	CAS Number	SCDHS Action Level	SCDHS Cleanup Objective	EP-CP003 L1808873-01 3/15/2018	EP-CP010 L1808721-01 3/14/2018	EP-CP011 L1808721-02 3/14/2017
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	630-20-6	600	300	1 U	0.88 U	0.85 U
1,1,1-Trichloroethane	71-55-6	1,400	700	1 U	0.88 U	0.85 U
1,1,2,2-Tetrachloroethane	79-34-5	800	400	1 U	0.88 U	0.85 U
1,1,2-Trichloroethane	79-00-5	200	100	1.6 U	1.3 U	1.3 U
1,1-Dichloroethane	75-34-3	600	300	1.6 U	1.3 U	1.3 U
1,1-Dichloroethene	75-35-4	600	300	1 U	0.88 U	0.85 U
1,1-Dichloropropene	563-58-6	200	100	5.3 U	4.4 U	4.3 U
1,2,3-Trichlorobenzene	87-61-6	17,000	8,300	5.3 U	4.4 U	4.3 U
1,2,3-Trichloropropane	96-18-4	100	50	10 U	8.8 U	8.5 U
1,2,4,5-Tetramethylbenzene	95-93-2	18,000	8,800	4.2 U	3.5 U	3.4 U
1,2,4-Trichlorobenzene	120-82-1	17,000	8,300	5.3 U	4.4 U	4.3 U
1,2,4-Trimethylbenzene	95-63-6	7,200	3,600	0.86 J	4.4 U	0.25 J
1,2-Dibromo-3-chloropropane	96-12-8	100	50	5.3 U	4.4 U	4.3 U
1,2-Dibromoethane	106-93-4	600	300	4.2 U	3.5 U	3.4 U
1,2-Dichlorobenzene	95-50-1	2,200	1,100	5.3 U	4.4 U	4.3 U
1,2-Dichloroethane	107-06-2	100	50	1 U	0.88 U	0.85 U
1,2-Dichloropropane	78-87-5	100	50	3.7 U	3.1 U	3 U
1,3,5-Trimethylbenzene	108-67-8	16,800	8,400	0.43 J	4.4 U	4.3 U
1,3-Dichlorobenzene	541-73-1	4,800	2,400	5.3 U	4.4 U	4.3 U
1,3-Dichloropropane	142-28-9	600	300	5.3 U	4.4 U	4.3 U
1,4-Dichlorobenzene	106-46-7	3,600	1,800	0.21 J	4.4 U	1.9 J
2,2-Dichloropropane	594-20-7	600	300	5.3 U	4.4 U	4.3 U
2-Butanone	78-93-3	400	200	10 U	8.8 U	9.6
4-Methyl-2-pentanone	108-10-1	1,400	700	10 U	8.8 U	1.3 J
Acetone	67-64-1	**	**	5.5 J	17	68
Benzene	71-43-2	120	60	1 U	0.88 U	0.85 U
Bromobenzene	108-86-1	2,800	1,400	5.3 U	4.4 U	4.3 U
Bromochloromethane	74-97-5	400	200	5.3 U	4.4 U	4.3 U
Bromodichloromethane	75-27-4	4,600	2,300	1 U	0.88 U	0.85 U
Bromoform	75-25-2	13,000	6,300	4.2 U	3.5 U	3.4 U
Carbon tetrachloride	56-23-5	1,600	800	1 U	0.88 U	0.85 U
Chlorobenzene	108-90-7	2,200	1,100	1 U	0.88 U	0.85 U
Chloroethane	75-00-3	400	200	2.1 U	1.8 U	1.7 U
Chloroform	67-66-3	800	400	1.6 U	1.3 U	1.3 U
cis-1,2-Dichloroethene	156-59-2	500	250	1 U	0.88 U	0.85 U
cis-1,3-Dichloropropene	10061-01-5	100	50	1 U	0.88 U	0.85 U
Dibromochloromethane	124-48-1	6,200	3,100	1 U	0.88 U	0.85 U
Dibromomethane	74-95-3	400	200	10 U	8.8 U	8.5 U
Dichlorodifluoromethane	75-71-8	600	300	10 U	8.8 U	8.5 U
Ethylbenzene	100-41-4	2,000	1,000	1 U	0.88 U	0.7 J
Freon-113	76-13-1	12,000	6,000	5.3 U	18 U	17 U
Hexachlorobutadiene	87-68-3	54,000	27,000	1 U	4.4 U	4.3 U
Isopropylbenzene	98-82-8	9,400	4,700	2.1 U	0.88 U	0.85 U
Methyl tert butyl ether	1634-04-4	200	100	10 U	1.8 U	1.7 U
Methylene chloride	75-09-2	100	50	5.3 U	8.8 U	8.5 U
n-Butylbenzene	104-51-8	12,000	5,900	1 U	4.4 U	0.35 J
n-Propylbenzene	103-65-1	8,000	4,000	1 U	0.88 U	0.85 U
Naphthalene	91-20-3	24,000	12,000	5.3 U	0.88 U	0.85 U
o-Chlorotoluene	95-49-8	5,200	2,600	2.1 U	4.4 U	4.3 U
o-Xylene	95-47-6	NS	1,600	2.1 U	1.8 U	1.7 U
p/m-Xylene	179601-23-1	NS	1,600	5.3 U	1.8 U	0.56 J
p-Chlorotoluene	106-43-4	5,200	2,600	4.2 U	4.4 U	4.3 U
p-Diethylbenzene	105-05-5	52,000	26,000	0.45 J	3.5 U	3.4 U
p-Ethyltoluene	622-96-8	9,000	4,500	1 U	3.5 U	3.4 U
p-Isopropyltoluene	99-87-6	22,000	11,000	1 U	0.88 U	0.82 J
sec-Butylbenzene	135-98-8	12,000	5,900	2.1 U	0.88 U	0.85 U
Styrene	100-42-5	9,200	4,600	5.3 U	1.8 U	1.7 U
tert-Butylbenzene	98-06-6	12,000	5,900	1 U	4.4 U	4.3 U
Tetrachloroethene	127-18-4	2,600	1,300	0.24 J	0.88 U	0.85 U
Toluene	108-88-3	3,000	1,500	1.6 U	1.3 U	10
trans-1,2-Dichloroethene	156-60-5	400	200	1 U	1.3 U	1.3 U
trans-1,3-Dichloropropene	10061-02-6	100	50	1 U	0.88 U	0.85 U
Trichloroethene	79-01-6	1,000	500	5.3 U	0.88 U	0.85 U
Trichlorofluoromethane	75-69-4	1,600	800	2.1 U	4.4 U	4.3 U
Vinyl chloride	75-01-4	100	50	2.1 U	1.8 U	1.7 U

Notes:

All concentrations are ug/kg (ppb)

(1) Action Levels & Cleanup Objectives, SCDHS Article 12 - SOP 9-95, August 2010.

** - Standard is determined on a case by case basis

Highlighted text denotes concentrations exceeding SCDHS Action Levels.

NS - No Standard

U - Indicates that the analyte was not detected above the laboratory MDL

J - Estimated value

NA - Not Analyzed

Table 2

Soil Sample Analytical Results - Total Metals
Gyrodyne Property (Catering Hall)
St. James, New York

CLIENT SAMPLE ID:	CAS Number	SCDHS Action Level	SCDHS Cleanup Objective	EP-CP003 L1808873-01 3/15/2018
Total Metals				
Arsenic, Total	7440-38-2	30	6	0.605
Barium, Total	7440-39-3	4,000	820	8.66
Beryllium, Total	7440-41-7	240	47	0.177 J
Cadmium, Total	7440-43-9	40	8	0.103 J
Chromium, Total	7440-47-3	100	20	8.13
Copper, Total	7440-50-8	8,500	1,700	9.39
Lead, Total	7439-92-1	2,000	450	3.64
Mercury, Total	7439-97-6	3.7	0.7	0.08 U
Nickel, Total	7440-02-0	650	130	6.12
Silver, Total	7440-22-4	50	10	0.492 U

Notes:

All concentrations are mg/kg (ppm)

(1) Action Levels & Cleanup Objectives, SCDHS Article 12 - SOP 9-95, August 2010.

** - Standard is determined on a case by case basis

Highlighted text denotes concentrations exceeding SCDHS Action Levels.

NS - No Standard

U - Indicates that the analyte was not detected above the laboratory MDL

J - Estimated value

APPENDIX A CORRESPONDENCE

COUNTY OF SUFFOLK



STEVEN BELLONE
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

JAMES L. TOMARKEN, MD, MPH, MBA, MSW
COMMISSIONER

December 15, 2017

Gyrodyne LLC
1 Flowerfield, Suite 24
Saint James, NY 11780

Re: **Flowerfield Industrial Park and Catering**
1 Flowerfield, Saint James, NY

SCFR# 04458

Dear Sir or Madam,

This letter is to advise you that our office has reviewed the environmental assessment performed by PWG Consulting at the above-referenced location. Review of the laboratory analyses provided found one or more of the following compounds present in the sample(s) collected: *volatile organic compounds, semi-volatile organic compounds, and/or heavy metals*. The compounds found are present at concentrations indicative of unpermitted discharges of industrial waste.

Compounds that have exceeded the Suffolk County SOP-9-95 guidelines are considered toxic or hazardous and are not to be discharged to the ground surface, sanitary systems, storm drains, or any other leaching system. Please be advised that the discharge of any liquid from an industrial process without having first obtained a SPDES permit for that discharge is a violation of the New York State Environmental Conservation Law and Article 12 of the Suffolk County Sanitary Code. These regulations were promulgated to protect the groundwater, the drinking water resource in Suffolk County.

Due to the elevated levels found, **YOU ARE DIRECTED** to have all contaminated solids/sludge and liquids pumped from all contaminated structures as indicated below, **including all structures connected to them not previously sampled**. Please be advised that the remediation activity can only be accomplished by a **licensed industrial waste transporter**. The New York State Department of Environmental Conservation can verify the permit status of an industrial waste transporter. NYSDEC can be reached at (518) 402-8792 or by e-mail at transport@dec.ny.gov.

Flowerfield Catering

Impacted Structure(s):

Contaminant(s) Found:

Endpoint(s) for:

Sanitary Systems

GT1, GT2, ST1, ST2, ST3,
CP4, CP10, CP11

VOCs

VOCs

CP1, CP2

VOCs, Heavy Metals

VOCs, Heavy Metals

over-

Flowerfield Industrial Campus

<u>Impacted Structure(s):</u>	<u>Contaminant(s) Found:</u>	<u>Endpoint(s) for:</u>
Storm Water Drywells SD-13, SD-17	SVOCs	SVOCs
Sanitary Systems 9ST, 9PLP, 9SLPC, 10ST, 12PLP, 13ST, 13PLP, 14ST	VOCs	VOCs
7ST, 11ST, 12ST, 12PLP1	VOCs, Heavy Metals	VOCs, Heavy Metals
11SLP	VOCs, SVOCs	VOCs, SVOCs

Additional Requirements:

- Soil sample analysis from SD19 and the final discharge location of the two white PVC pipes on the south side of Building 2.
- Permanently disconnect the interior sink influent sources from SD10, SD15 and SD18 at the industrial campus as this is in violation of Suffolk County Sanitary Code.

Following the extraction of the contaminated soils from the leaching structures, confirmatory endpoint sample collection will be required to prove the remediation satisfactory. If endpoint samples or the nature of the contaminants indicate that further environmental contamination may be present, additional remedial measures including, but not limited to, a ground water investigation and/or soil vapor intrusion investigation will be required by the Department.

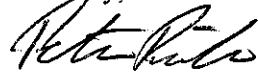
Failure to comply with the directives set forth in this letter by January 26, 2018 will result in this matter being scheduled for a formal administrative hearing at which time the Department will be seeking the imposition of the maximum penalties of \$2000.00 per day for each and every violation of the Suffolk County Sanitary Code including, but not limited to, failure to comply with the directives set forth in this letter. Your immediate attention to this matter is, therefore, expected.

Scope of Work to be Performed:

- Submit application and check for the remaining fee in the amount of \$550.00 made out to The Suffolk County Department of Health Services (SCDHS). *Fee covers Closure Review.*
- Retain the services of a licensed industrial waste transporter and/or environmental consultant. *Contact the NYSDEC regarding the permitting status of the waste transporter and disposal facility.*
- Provide a work plan describing the proposed remedial action.
- Contact the undersigned to schedule a remediation inspection/oversee additional requirements.
- Provide post-excavation end-point sample analyses for all impacted structures.
- Provide waste-disposal manifest(s) for all contaminated liquid and soil.
- Contact the United States Environmental Protection Agency at <http://www.epa.gov/safewater/uic> regarding their Underground Injection Control (UIC) program requirements.

All field activities must be scheduled at mutually agreeable times with the Department. If you have any questions concerning these matters or to schedule an appointment, please contact the undersigned.

Sincerely,



Peter Priolo
Public Health Sanitarian
Bureau of Environmental Investigation and Remediation
(631) 854-2545
CC: T. Melia, PWGC; NYSDEC, USEPA



Edward Roe
Senior Public Health Sanitarian

(631) 854-2534

APPENDIX B

LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

Lab Number: L1808721
Client: P. W. Grosser
630 Johnson Avenue
Suite 7
Bohemia, NY 11716
ATTN: Thomas Melia
Phone: (631) 589-6353
Project Name: GYRODYNE-CATERING
Project Number: GCA1705
Report Date: 03/21/18

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

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Project Number: GCA1705

Report Date: 03/21/18

03/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808721-01	EP-CP010	SOIL	1 FLOWERFIELD, ST. JAMES, NY	03/14/18 14:45	03/14/18
L1808721-02	EP-CP011	SOIL	1 FLOWERFIELD, ST. JAMES, NY	03/14/18 15:00	03/14/18



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GYRODYNE-CATERING**Lab Number:** L1808721**Project Number:** GCA1705**Report Date:** 03/21/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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.



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

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.

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:

Erstin Walker Erstin Walker

Title: Technical Director/Representative

Date: 03/21/18



ORGANICS



VOLATILES



Project Name: 48 GYRODYNE-CATERING

Lab Number: L1808721

RECEIVED NYSOTEP 06/14/2022 Page 1 of 27

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808721-01
 Client ID: EP-CP010
 Sample Location: 1 FLOWERFIELD, ST. JAMES, NY

Date Collected: 03/14/18 14:45
 Date Received: 03/14/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/19/18 16:30
 Analyst: KD
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	8.8	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.24	1
Chloroform	ND		ug/kg	1.3	0.32	1
Carbon tetrachloride	ND		ug/kg	0.88	0.30	1
1,2-Dichloropropane	ND		ug/kg	3.1	0.20	1
Dibromochloromethane	ND		ug/kg	0.88	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.28	1
Tetrachloroethene	ND		ug/kg	0.88	0.26	1
Chlorobenzene	ND		ug/kg	0.88	0.31	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.37	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.88	0.31	1
Bromodichloromethane	ND		ug/kg	0.88	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.88	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.4	0.29	1
Bromoform	ND		ug/kg	3.5	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.88	0.26	1
Benzene	ND		ug/kg	0.88	0.17	1
Toluene	ND		ug/kg	1.3	0.17	1
Ethylbenzene	ND		ug/kg	0.88	0.15	1
Vinyl chloride	ND		ug/kg	1.8	0.28	1
Chloroethane	ND		ug/kg	1.8	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.21	1
Trichloroethene	ND		ug/kg	0.88	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	4.4	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.4	0.19	1

Project Name: 48 GYRODYNE-CATERING

Lab Number: RECEIVED NYSDOT 06/14/2022
Page 1 of 28

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808721-01
Client ID: EP-CP010
Sample Location: 1 FLOWERFIELD, ST. JAMES, NYDate Collected: 03/14/18 14:45
Date Received: 03/14/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	4.4	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.13	1
p/m-Xylene	ND		ug/kg	1.8	0.31	1
o-Xylene	ND		ug/kg	1.8	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	0.30	1
Dibromomethane	ND		ug/kg	8.8	0.21	1
Styrene	ND		ug/kg	1.8	0.35	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.44	1
Acetone	17		ug/kg	8.8	2.0	1
2-Butanone	ND		ug/kg	8.8	0.61	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	0.21	1
1,2,3-Trichloropropane	ND		ug/kg	8.8	0.16	1
Bromochloromethane	ND		ug/kg	4.4	0.31	1
2,2-Dichloropropane	ND		ug/kg	4.4	0.40	1
1,2-Dibromoethane	ND		ug/kg	3.5	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.4	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.88	0.28	1
Bromobenzene	ND		ug/kg	4.4	0.19	1
n-Butylbenzene	ND		ug/kg	0.88	0.20	1
sec-Butylbenzene	ND		ug/kg	0.88	0.19	1
tert-Butylbenzene	ND		ug/kg	4.4	0.22	1
o-Chlorotoluene	ND		ug/kg	4.4	0.19	1
p-Chlorotoluene	ND		ug/kg	4.4	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.4	0.35	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.31	1
Isopropylbenzene	ND		ug/kg	0.88	0.17	1
p-Isopropyltoluene	ND		ug/kg	0.88	0.18	1
Naphthalene	ND		ug/kg	4.4	0.12	1
n-Propylbenzene	ND		ug/kg	0.88	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.4	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.4	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.4	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.4	0.16	1
Freon-113	ND		ug/kg	18	0.45	1
p-Diethylbenzene	ND		ug/kg	3.5	3.5	1
p-Ethyltoluene	ND		ug/kg	3.5	0.20	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.5	0.14	1

Project Name: 48 GYRODYNE-CATERING

Lab Number: L1808721

RECEIVED NYSCEF: 06/14/2022 Page 1 of 29

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808721-01
Client ID: EP-CP010
Sample Location: 1 FLOWERFIELD, ST. JAMES, NY

Date Collected: 03/14/18 14:45
Date Received: 03/14/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130



Project Name: 48 GYRODYNE-CATERING

Lab Number: L1808721

RECEIVED NYSOHEP 06/14/2022 Page 1 of 30

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808721-02
 Client ID: EP-CP011
 Sample Location: 1 FLOWERFIELD, ST. JAMES, NY

Date Collected: 03/14/18 15:00
 Date Received: 03/14/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/20/18 11:49
 Analyst: AD
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	8.5	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.23	1
Chloroform	ND		ug/kg	1.3	0.32	1
Carbon tetrachloride	ND		ug/kg	0.85	0.29	1
1,2-Dichloropropane	ND		ug/kg	3.0	0.19	1
Dibromochloromethane	ND		ug/kg	0.85	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.27	1
Tetrachloroethene	ND		ug/kg	0.85	0.26	1
Chlorobenzene	ND		ug/kg	0.85	0.30	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.36	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.85	0.30	1
Bromodichloromethane	ND		ug/kg	0.85	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.85	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.3	0.28	1
Bromoform	ND		ug/kg	3.4	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.85	0.25	1
Benzene	ND		ug/kg	0.85	0.16	1
Toluene	10		ug/kg	1.3	0.17	1
Ethylbenzene	0.70	J	ug/kg	0.85	0.14	1
Vinyl chloride	ND		ug/kg	1.7	0.27	1
Chloroethane	ND		ug/kg	1.7	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.20	1
Trichloroethene	ND		ug/kg	0.85	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	4.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.3	0.19	1



Project Name: 48 GYRODYNE-CATERING

Lab Number: L1808721 RECEIVED NYSDOT 06/14/2022

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808721-02
 Client ID: EP-CP011
 Sample Location: 1 FLOWERFIELD, ST. JAMES, NY

Date Collected: 03/14/18 15:00
 Date Received: 03/14/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	1.9	J	ug/kg	4.3	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	0.56	J	ug/kg	1.7	0.30	1
o-Xylene	ND		ug/kg	1.7	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.85	0.29	1
Dibromomethane	ND		ug/kg	8.5	0.20	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.43	1
Acetone	68		ug/kg	8.5	2.0	1
2-Butanone	9.6		ug/kg	8.5	0.59	1
4-Methyl-2-pentanone	1.3	J	ug/kg	8.5	0.21	1
1,2,3-Trichloropropane	ND		ug/kg	8.5	0.15	1
Bromochloromethane	ND		ug/kg	4.3	0.30	1
2,2-Dichloropropane	ND		ug/kg	4.3	0.38	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.3	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.85	0.27	1
Bromobenzene	ND		ug/kg	4.3	0.19	1
n-Butylbenzene	ND		ug/kg	0.85	0.19	1
sec-Butylbenzene	ND		ug/kg	0.85	0.18	1
tert-Butylbenzene	ND		ug/kg	4.3	0.21	1
o-Chlorotoluene	ND		ug/kg	4.3	0.19	1
p-Chlorotoluene	ND		ug/kg	4.3	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	0.34	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.30	1
Isopropylbenzene	ND		ug/kg	0.85	0.16	1
p-Isopropyltoluene	0.82	J	ug/kg	0.85	0.17	1
Naphthalene	0.35	J	ug/kg	4.3	0.12	1
n-Propylbenzene	ND		ug/kg	0.85	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.3	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.3	0.14	1
1,2,4-Trimethylbenzene	0.25	J	ug/kg	4.3	0.16	1
Freon-113	ND		ug/kg	17	0.44	1
p-Diethylbenzene	ND		ug/kg	3.4	3.4	1
p-Ethyltoluene	ND		ug/kg	3.4	0.20	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.4	0.13	1



Project Name: 48 GYRODYNE-CATERING

Lab Number: L1808721

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Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808721-02
Client ID: EP-CP011
Sample Location: 1 FLOWERFIELD, ST. JAMES, NY

Date Collected: 03/14/18 15:00
Date Received: 03/14/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	122		70-130
Dibromofluoromethane	99		70-130



NYSCEF DOC. NO. 48

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 03/19/18 08:39
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1098335-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	0.25	J	ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18

NYSCEF DOC. NO. 48

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 03/19/18 08:39
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1098335-5					
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	0.15	J	ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25

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Project Name: GYRODYNE-CATERING
Project Number: GCA1705

Lab Number: L1808721
Report Date: 03/21/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 03/19/18 08:39
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1098335-5					
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 03/20/18 08:34
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1098741-5					
Methylene chloride	5.7	J	ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18



Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 03/20/18 08:34
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1098741-5					
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	4.2	J	ug/kg	10	2.3
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25



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Project Name: GYRODYNE-CATERING
Project Number: GCA1705

Lab Number: L1808721
Report Date: 03/21/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 03/20/18 08:34
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1098741-5					
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1098335-3 WG1098335-4								
Methylene chloride	92		93		70-130	1		30
1,1-Dichloroethane	99		100		70-130	1		30
Chloroform	94		96		70-130	2		30
Carbon tetrachloride	104		107		70-130	3		30
1,2-Dichloropropane	99		99		70-130	0		30
Dibromochloromethane	92		93		70-130	1		30
1,1,2-Trichloroethane	98		97		70-130	1		30
Tetrachloroethene	97		98		70-130	1		30
Chlorobenzene	94		94		70-130	0		30
Trichlorofluoromethane	106		107		70-139	1		30
1,2-Dichloroethane	95		98		70-130	3		30
1,1,1-Trichloroethane	102		103		70-130	1		30
Bromodichloromethane	97		99		70-130	2		30
trans-1,3-Dichloropropene	83		84		70-130	1		30
cis-1,3-Dichloropropene	95		97		70-130	2		30
1,1-Dichloropropene	103		103		70-130	0		30
Bromoform	85		88		70-130	3		30
1,1,2,2-Tetrachloroethane	94		95		70-130	1		30
Benzene	95		97		70-130	2		30
Toluene	95		96		70-130	1		30
Ethylbenzene	96		97		70-130	1		30
Vinyl chloride	104		104		67-130	0		30
Chloroethane	97		93		50-151	4		30



Lab Control Sample Analysis
Batch Quality Control

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1098335-3 WG1098335-4								
1,1-Dichloroethene	104		104		65-135	0		30
trans-1,2-Dichloroethene	96		98		70-130	2		30
Trichloroethene	97		98		70-130	1		30
1,2-Dichlorobenzene	93		95		70-130	2		30
1,3-Dichlorobenzene	93		94		70-130	1		30
1,4-Dichlorobenzene	92		92		70-130	0		30
Methyl tert butyl ether	97		99		66-130	2		30
p/m-Xylene	90		91		70-130	1		30
o-Xylene	90		90		70-130	0		30
cis-1,2-Dichloroethene	96		98		70-130	2		30
Dibromomethane	94		96		70-130	2		30
Styrene	88		89		70-130	1		30
Dichlorodifluoromethane	104		105		30-146	1		30
Acetone	136		127		54-140	7		30
2-Butanone	112		107		70-130	5		30
4-Methyl-2-pentanone	89		91		70-130	2		30
1,2,3-Trichloropropane	94		95		68-130	1		30
Bromochloromethane	96		98		70-130	2		30
2,2-Dichloropropane	107		107		70-130	0		30
1,2-Dibromoethane	94		97		70-130	3		30
1,3-Dichloropropane	97		98		69-130	1		30
1,1,1,2-Tetrachloroethane	93		95		70-130	2		30
Bromobenzene	94		95		70-130	1		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1098335-3 WG1098335-4								
n-Butylbenzene	99		100		70-130	1		30
sec-Butylbenzene	99		101		70-130	2		30
tert-Butylbenzene	98		100		70-130	2		30
o-Chlorotoluene	83		82		70-130	1		30
p-Chlorotoluene	95		98		70-130	3		30
1,2-Dibromo-3-chloropropane	85		88		68-130	3		30
Hexachlorobutadiene	96		97		67-130	1		30
Isopropylbenzene	98		100		70-130	2		30
p-Isopropyltoluene	98		99		70-130	1		30
Naphthalene	92		94		70-130	2		30
n-Propylbenzene	98		100		70-130	2		30
1,2,3-Trichlorobenzene	94		95		70-130	1		30
1,2,4-Trichlorobenzene	94		96		70-130	2		30
1,3,5-Trimethylbenzene	95		96		70-130	1		30
1,2,4-Trimethylbenzene	97		98		70-130	1		30
Freon-113	123		122		50-139	1		30
p-Diethylbenzene	97		99		70-130	2		30
p-Ethyltoluene	98		99		70-130	1		30
1,2,4,5-Tetramethylbenzene	96		97		70-130	1		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1098335-3 WG1098335-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	96		97		70-130



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1098741-3 WG1098741-4								
Methylene chloride	99		97		70-130	2		30
1,1-Dichloroethane	105		102		70-130	3		30
Chloroform	101		99		70-130	2		30
Carbon tetrachloride	108		105		70-130	3		30
1,2-Dichloropropane	108		105		70-130	3		30
Dibromochloromethane	98		98		70-130	0		30
1,1,2-Trichloroethane	105		103		70-130	2		30
Tetrachloroethene	98		94		70-130	4		30
Chlorobenzene	98		95		70-130	3		30
Trichlorofluoromethane	106		103		70-139	3		30
1,2-Dichloroethane	105		103		70-130	2		30
1,1,1-Trichloroethane	104		102		70-130	2		30
Bromodichloromethane	106		104		70-130	2		30
trans-1,3-Dichloropropene	91		90		70-130	1		30
cis-1,3-Dichloropropene	104		103		70-130	1		30
1,1-Dichloropropene	106		101		70-130	5		30
Bromoform	94		93		70-130	1		30
1,1,2,2-Tetrachloroethane	104		103		70-130	1		30
Benzene	102		99		70-130	3		30
Toluene	98		95		70-130	3		30
Ethylbenzene	99		97		70-130	2		30
Vinyl chloride	103		102		67-130	1		30
Chloroethane	98		102		50-151	4		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING
Project Number: GCA1705

Lab Number: L1808721
Report Date: 03/21/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1098741-3 WG1098741-4								
1,1-Dichloroethene	104		102		65-135	2		30
trans-1,2-Dichloroethene	102		98		70-130	4		30
Trichloroethene	101		97		70-130	4		30
1,2-Dichlorobenzene	96		95		70-130	1		30
1,3-Dichlorobenzene	97		94		70-130	3		30
1,4-Dichlorobenzene	94		92		70-130	2		30
Methyl tert butyl ether	108		106		66-130	2		30
p/m-Xylene	93		90		70-130	3		30
o-Xylene	93		90		70-130	3		30
cis-1,2-Dichloroethene	102		100		70-130	2		30
Dibromomethane	104		102		70-130	2		30
Styrene	93		89		70-130	4		30
Dichlorodifluoromethane	106		99		30-146	7		30
Acetone	152	Q	137		54-140	10		30
2-Butanone	119		118		70-130	1		30
4-Methyl-2-pentanone	102		100		70-130	2		30
1,2,3-Trichloropropane	102		103		68-130	1		30
Bromochloromethane	105		102		70-130	3		30
2,2-Dichloropropane	110		108		70-130	2		30
1,2-Dibromoethane	102		100		70-130	2		30
1,3-Dichloropropane	105		103		69-130	2		30
1,1,1,2-Tetrachloroethane	100		98		70-130	2		30
Bromobenzene	97		96		70-130	1		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING
Project Number: GCA1705

Lab Number: L1808721
Report Date: 03/21/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1098741-3 WG1098741-4								
n-Butylbenzene	100		97		70-130	3		30
sec-Butylbenzene	100		97		70-130	3		30
tert-Butylbenzene	99		96		70-130	3		30
o-Chlorotoluene	86		100		70-130	15		30
p-Chlorotoluene	99		96		70-130	3		30
1,2-Dibromo-3-chloropropane	99		95		68-130	4		30
Hexachlorobutadiene	94		90		67-130	4		30
Isopropylbenzene	100		97		70-130	3		30
p-Isopropyltoluene	100		97		70-130	3		30
Naphthalene	100		96		70-130	4		30
n-Propylbenzene	100		97		70-130	3		30
1,2,3-Trichlorobenzene	98		92		70-130	6		30
1,2,4-Trichlorobenzene	98		93		70-130	5		30
1,3,5-Trimethylbenzene	97		95		70-130	2		30
1,2,4-Trimethylbenzene	100		98		70-130	2		30
Freon-113	123		117		50-139	5		30
p-Diethylbenzene	99		96		70-130	3		30
p-Ethyltoluene	100		97		70-130	3		30
1,2,4,5-Tetramethylbenzene	99		96		70-130	3		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1098741-3 WG1098741-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	98		98		70-130



**INORGANICS
&
MISCELLANEOUS**



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808721-01
Client ID: EP-CP010
Sample Location: 1 FLOWERFIELD, ST. JAMES, NY

Date Collected: 03/14/18 14:45
Date Received: 03/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	03/15/18 14:33	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GYRODYNE-CATERING

Lab Number: L1808721

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808721-02
Client ID: EP-CP011
Sample Location: 1 FLOWERFIELD, ST. JAMES, NY

Date Collected: 03/14/18 15:00
Date Received: 03/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	03/15/18 14:33	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: GYRODYNE-CATERING
Project Number: GCA1705

Lab Number: L1808721
Report Date: 03/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1097401-1 QC Sample: L1808701-08 Client ID: DUP Sample						
Solids, Total	91.7	92.5	%	1		20



NYSCEF DOC NO: 48 **Project Name:** GYRODYNE-CATERING

FILED NYSCFB: 06/14/2022
Page 1 of 351
Lab Number: 1808721

Project Number: GCA1705

Report Date: 03/21/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808721-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.7	Y	Absent		TS(7),NYTCL-8260(14)
L1808721-01X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260(14)
L1808721-01Y	Vial Water preserved split	A	NA		2.7	Y	Absent	17-MAR-18 13:31	NYTCL-8260(14)
L1808721-01Z	Vial Water preserved split	A	NA		2.7	Y	Absent	17-MAR-18 13:31	NYTCL-8260(14)
L1808721-02A	Vial Large Septa unpreserved (4oz)	A	NA		2.7	Y	Absent		TS(7),NYTCL-8260(14)
L1808721-02X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260(14)
L1808721-02Y	Vial Water preserved split	A	NA		2.7	Y	Absent	17-MAR-18 13:31	NYTCL-8260(14)
L1808721-02Z	Vial Water preserved split	A	NA		2.7	Y	Absent	17-MAR-18 13:31	NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: GYRODYNE-CATERING

Project Number: GCA1705

Lab Number: L180872 Page 1-1352

Report Date: 03/21/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers

Project Name: GYRODYNE-CATERING**Lab Number:**

L180872 Page 1-1353

Project Number: GCA1705**Report Date:** 03/21/18**Data Qualifiers**

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.
- 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: GYRODYNE-CATERING

Lab Number:

Project Number: GCA1705

Report Date: 03/21/18

REFERENCES

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

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.



Facility: **Company-wide**

Revision 11

Department: **Quality Assurance**

Published Date: 1/8/2018 4:15:49 PM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, 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; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

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

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

		NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Wadsworth St. TEL: 508-899-1500 FAX: 508-899-1123		Westborough, MA 01581 320 Barnes Blvd TEL: 508-899-1500 FAX: 508-899-1123		Service Centers Westbury, NY 11591 35 Whipple Rd, Suite 6 Albany, NY 12205 11 Winton Way Tonawanda, NY 14150 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 3/15/18		ALPHA Job # L1808721																																																																																																											
Client Information Client: PWGC Address: 630 Johnson Ave Ste 7 Bohnemia, NY 11716 Phone: (631) 589-6353 Fax: Email: thomas.m@pwgcorp.com		Project Information Project Name: Cyrosodyne - Catering Project Location: 1 Flowerfield, St James, NY Project #: GCA1705 (Use Project name as Project #) <input type="checkbox"/> Project Manager: Tom Melia ALPHA Quote #: Turn-around Time: Standard <input checked="" type="checkbox"/> Rush (only if pre-approved) <input type="checkbox"/> Due Date: # of Days:				Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUS (if File) <input type="checkbox"/> EQUS (if File) <input checked="" type="checkbox"/> Other Results only				Billing Information <input checked="" type="checkbox"/> Same as Client Info P.O. #																																																																																																													
These samples have been previously analyzed by Alpha: <input type="checkbox"/>		Other project specific requirements/comments:				Regulatory Requirements <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 25 <input type="checkbox"/> AWD Standards <input type="checkbox"/> NY SP 51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other: <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal location: Municipal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other																																																																																																													
Please specify Metals or TAL:		ANALYSIS				Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)																																																																																																																	
<table border="1"> <thead> <tr> <th rowspan="2">ALPHA LAB ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">SECHS VOLS</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>B721-01</td> <td>EP-CPO10</td> <td>3/14/18</td> <td>1445</td> <td>S</td> <td>ME</td> <td>XX</td> </tr> <tr> <td>02</td> <td>EP-CPO11</td> <td>↓</td> <td>1500</td> <td>↓</td> <td>↓</td> <td>XX</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		ALPHA LAB ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	SECHS VOLS	Date	Time	B721-01	EP-CPO10	3/14/18	1445	S	ME	XX	02	EP-CPO11	↓	1500	↓	↓	XX																																																																																												Sample Specific Comments			
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02	EP-CPO11	↓	1500	↓	↓	XX																																																																																																																	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = NH ₄ OH G = NH ₄ SCN H = Na ₂ S ₂ O ₈ K/E = 2M Ac/NH ₄ O = Other		Container Code: P = Plastic G = Amber Glass V = Vial Q = Quill B = Breders Lip C = Curb D = Other E = Encore D = BOD Bottle		Westbury Certification No: MA015 Mansfield Certification No: MA015		Container Type: A Preservative: A		Please print clearly, legibly and completely. Samples can not be tagged in and turnaround time clock will not start until any ambiguities are removed. BY EXECUTING THIS DOC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																																															
Form No: 03/25/12 (rev. 03-2013)		Reimbursed By: Date/Time: 3/15/18 00:43		Received By: Date/Time: 3/15/18 02:19		Received By: Date/Time: 3/15/18 02:19		Received By: Date/Time: 3/15/18 02:19																																																																																																															



ANALYTICAL REPORT

Lab Number: L1808873
Client: P. W. Grosser
630 Johnson Avenue
Suite 7
Bohemia, NY 11716
ATTN: Thomas Melia
Phone: (631) 589-6353
Project Name: GYRODYNE-CATERING
Project Number: GCA1705
Report Date: 03/21/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1808873-01	EP-CP003	SOIL	ST. JAMES, NY	03/15/18 12:45	03/15/18



Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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.



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

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.

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: 03/21/18



ORGANICS



VOLATILES



Project Name: 48 GYRODYNE-CATERING

Lab Number: L1808873

RECEIVED NYSOTHS 06/14/2022 Page 1 of 363

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808873-01
 Client ID: EP-CP003
 Sample Location: ST. JAMES, NY

Date Collected: 03/15/18 12:45
 Date Received: 03/15/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/21/18 10:48
 Analyst: JC
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.28	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.0	0.32	1
Chlorobenzene	ND		ug/kg	1.0	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.37	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.3	0.35	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	0.24	J	ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.25	1
Trichloroethene	ND		ug/kg	1.0	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.3	0.23	1

NYSCEF DOC. NO. 48 Project Name: GYRODYNE-CATERING

Lab Number: RECEIVED NYSDOT 06/14/2022 Page 1-1364

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808873-01
 Client ID: EP-CP003
 Sample Location: ST. JAMES, NY

Date Collected: 03/15/18 12:45
 Date Received: 03/15/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	0.21	J	ug/kg	5.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.37	1
o-Xylene	ND		ug/kg	2.1	0.36	1
Xylenes, Total	ND		ug/kg	2.1	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.36	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.53	1
Acetone	5.5	J	ug/kg	10	2.4	1
2-Butanone	ND		ug/kg	10	0.73	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.19	1
Bromochloromethane	ND		ug/kg	5.3	0.38	1
2,2-Dichloropropane	ND		ug/kg	5.3	0.47	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.34	1
Bromobenzene	ND		ug/kg	5.3	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.23	1
tert-Butylbenzene	ND		ug/kg	5.3	0.26	1
o-Chlorotoluene	ND		ug/kg	5.3	0.23	1
p-Chlorotoluene	ND		ug/kg	5.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.37	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.21	1
Naphthalene	ND		ug/kg	5.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.0	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	0.23	1
1,3,5-Trimethylbenzene	0.43	J	ug/kg	5.3	0.17	1
1,2,4-Trimethylbenzene	0.86	J	ug/kg	5.3	0.20	1
p-Diethylbenzene	ND		ug/kg	4.2	4.2	1
p-Ethyltoluene	0.45	J	ug/kg	4.2	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.16	1

Project Name: 48 GYRODYNE-CATERING

Lab Number: RECEIVED NYSCEF 06/14/2022 Page 1-1363

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808873-01
Client ID: EP-CP003
Sample Location: ST. JAMES, NY

Date Collected: 03/15/18 12:45
Date Received: 03/15/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130



Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 03/21/18 09:25
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1099178-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 03/21/18 09:25
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1099178-5					
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	4.0	J	ug/kg	10	2.3
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22

NYSCEF DOC. NO. 48

Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 03/21/18 09:25
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1099178-5					
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1099178-3 WG1099178-4								
Methylene chloride	100		97		70-130	3		30
1,1-Dichloroethane	108		104		70-130	4		30
Chloroform	102		99		70-130	3		30
Carbon tetrachloride	112		108		70-130	4		30
1,2-Dichloropropane	110		107		70-130	3		30
Dibromochloromethane	98		95		70-130	3		30
1,1,2-Trichloroethane	103		102		70-130	1		30
Tetrachloroethene	95		92		70-130	3		30
Chlorobenzene	97		93		70-130	4		30
Trichlorofluoromethane	106		101		70-139	5		30
1,2-Dichloroethane	108		105		70-130	3		30
1,1,1-Trichloroethane	108		102		70-130	6		30
Bromodichloromethane	105		101		70-130	4		30
trans-1,3-Dichloropropene	93		89		70-130	4		30
cis-1,3-Dichloropropene	106		103		70-130	3		30
1,1-Dichloropropene	108		104		70-130	4		30
Bromoform	90		89		70-130	1		30
1,1,1,2-Tetrachloroethane	100		99		70-130	1		30
Benzene	102		99		70-130	3		30
Toluene	98		95		70-130	3		30
Ethylbenzene	100		95		70-130	5		30
Vinyl chloride	112		108		67-130	4		30
Chloroethane	104		101		50-151	3		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1099178-3 WG1099178-4								
1,1-Dichloroethene	106		96		65-135	10		30
trans-1,2-Dichloroethene	103		99		70-130	4		30
Trichloroethene	102		98		70-130	4		30
1,2-Dichlorobenzene	95		92		70-130	3		30
1,3-Dichlorobenzene	95		90		70-130	5		30
1,4-Dichlorobenzene	93		90		70-130	3		30
Methyl tert butyl ether	105		105		66-130	0		30
p/m-Xylene	93		89		70-130	4		30
o-Xylene	92		89		70-130	3		30
cis-1,2-Dichloroethene	102		98		70-130	4		30
Dibromomethane	102		101		70-130	1		30
Styrene	91		88		70-130	3		30
Dichlorodifluoromethane	107		100		30-146	7		30
Acetone	124		131		54-140	5		30
2-Butanone	111		113		70-130	2		30
4-Methyl-2-pentanone	98		99		70-130	1		30
1,2,3-Trichloropropane	102		98		68-130	4		30
Bromochloromethane	102		100		70-130	2		30
2,2-Dichloropropane	118		112		70-130	5		30
1,2-Dibromoethane	99		98		70-130	1		30
1,3-Dichloropropane	103		102		69-130	1		30
1,1,1,2-Tetrachloroethane	100		96		70-130	4		30
Bromobenzene	94		91		70-130	3		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING
Project Number: GCA1705

Lab Number: L1808873
Report Date: 03/21/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1099178-3 WG1099178-4								
n-Butylbenzene	101		96		70-130	5		30
sec-Butylbenzene	101		96		70-130	5		30
tert-Butylbenzene	99		95		70-130	4		30
o-Chlorotoluene	86		82		70-130	5		30
p-Chlorotoluene	99		94		70-130	5		30
1,2-Dibromo-3-chloropropane	92		92		68-130	0		30
Hexachlorobutadiene	93		88		67-130	6		30
Isopropylbenzene	100		95		70-130	5		30
p-Isopropyltoluene	99		94		70-130	5		30
Naphthalene	96		94		70-130	2		30
n-Propylbenzene	101		96		70-130	5		30
1,2,3-Trichlorobenzene	93		91		70-130	2		30
1,2,4-Trichlorobenzene	93		90		70-130	3		30
1,3,5-Trimethylbenzene	97		92		70-130	5		30
1,2,4-Trimethylbenzene	99		95		70-130	4		30
Freon-113	127		88		50-139	36	Q	30
p-Diethylbenzene	98		93		70-130	5		30
p-Ethyltoluene	100		95		70-130	5		30
1,2,4,5-Tetramethylbenzene	97		93		70-130	4		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1099178-3 WG1099178-4

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		101		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	96		96		70-130



METALS



NYSCEF DOC NO. 48

RECEIVED_NYSCEF: 06/14/2022

Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808873-01
 Client ID: EP-CP003
 Sample Location: ST. JAMES, NY

Date Collected: 03/15/18 12:45
 Date Received: 03/15/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.605		mg/kg	0.492	0.102	1	03/16/18 21:25	03/19/18 17:11	EPA 3050B	1,6010C	AB
Barium, Total	8.66		mg/kg	0.492	0.086	1	03/16/18 21:25	03/19/18 17:11	EPA 3050B	1,6010C	AB
Beryllium, Total	0.177	J	mg/kg	0.246	0.016	1	03/16/18 21:25	03/19/18 17:11	EPA 3050B	1,6010C	AB
Cadmium, Total	0.103	J	mg/kg	0.492	0.048	1	03/16/18 21:25	03/19/18 17:11	EPA 3050B	1,6010C	AB
Chromium, Total	8.13		mg/kg	0.492	0.047	1	03/16/18 21:25	03/19/18 17:11	EPA 3050B	1,6010C	AB
Copper, Total	9.39		mg/kg	0.492	0.127	1	03/16/18 21:25	03/19/18 17:11	EPA 3050B	1,6010C	AB
Lead, Total	3.64		mg/kg	2.46	0.132	1	03/16/18 21:25	03/19/18 17:11	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.08	0.02	1	03/17/18 09:00	03/17/18 16:30	EPA 7471B	1,7471B	MG
Nickel, Total	6.12		mg/kg	1.23	0.119	1	03/16/18 21:25	03/19/18 17:11	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.492	0.139	1	03/16/18 21:25	03/19/18 17:11	EPA 3050B	1,6010C	AB

Project Name: GYRODYNE-CATERING

Lab Number: PLS08875

Project Number: GCA1705

Report Date: 03/21/18

**Method Blank Analysis
Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1097881-1									
Arsenic, Total	ND	mg/kg	0.400	0.083	1	03/16/18 21:25	03/17/18 09:20	1,6010C	LC
Barium, Total	ND	mg/kg	0.400	0.070	1	03/16/18 21:25	03/17/18 09:20	1,6010C	LC
Beryllium, Total	ND	mg/kg	0.200	0.013	1	03/16/18 21:25	03/17/18 09:20	1,6010C	LC
Cadmium, Total	ND	mg/kg	0.400	0.039	1	03/16/18 21:25	03/17/18 09:20	1,6010C	LC
Chromium, Total	ND	mg/kg	0.400	0.038	1	03/16/18 21:25	03/17/18 09:20	1,6010C	LC
Copper, Total	ND	mg/kg	0.400	0.103	1	03/16/18 21:25	03/17/18 09:20	1,6010C	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	03/16/18 21:25	03/17/18 09:20	1,6010C	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	03/16/18 21:25	03/17/18 09:20	1,6010C	LC
Silver, Total	ND	mg/kg	0.400	0.113	1	03/16/18 21:25	03/17/18 09:20	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1097991-1									
Mercury, Total	ND	mg/kg	0.08	0.02	1	03/17/18 09:00	03/17/18 16:04	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1097881-2 SRM Lot Number: D098-540								
Arsenic, Total	101		-		83-117	-		
Barium, Total	94		-		82-118	-		
Beryllium, Total	94		-		83-117	-		
Cadmium, Total	93		-		82-117	-		
Chromium, Total	97		-		83-119	-		
Copper, Total	98		-		84-116	-		
Lead, Total	91		-		82-117	-		
Nickel, Total	92		-		82-117	-		
Silver, Total	100		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1097991-2 SRM Lot Number: D098-540								
Mercury, Total	125		-		50-149	-		



**Matrix Spike Analysis
 Batch Quality Control**

Project Name: GYRODYNE-CATERING
Project Number: GCA1705

Lab Number: L1808873
Report Date: 03/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1097881-3 QC Sample: L1808901-01 Client ID: MS Sample												
Arsenic, Total	4.37	11.2	13.8	84		-	-		75-125	-		20
Barium, Total	128.	187	343	115		-	-		75-125	-		20
Beryllium, Total	0.506	4.68	3.66	67	Q	-	-		75-125	-		20
Cadmium, Total	0.294J	4.77	3.68	77		-	-		75-125	-		20
Chromium, Total	13.4	18.7	27.5	75		-	-		75-125	-		20
Copper, Total	26.6	23.4	63.7	158	Q	-	-		75-125	-		20
Lead, Total	133.	47.7	208	157	Q	-	-		75-125	-		20
Nickel, Total	9.95	46.8	40.4	65	Q	-	-		75-125	-		20
Silver, Total	ND	28.1	22.9	82		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1097991-3 QC Sample: L1808999-01 Client ID: MS Sample												
Mercury, Total	0.09	0.135	0.27	133	Q	-	-		80-120	-		20



Lab Duplicate Analysis
Batch Quality Control

Project Name: GYRODYNE-CATERING

Project Number: GCA1705

Lab Number: L1808873

Report Date: 03/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1097881-4 QC Sample: L1808901-01 Client ID: DUP Sample						
Arsenic, Total	4.37	4.84	mg/kg	10		20
Barium, Total	128.	119	mg/kg	7		20
Cadmium, Total	0.294J	0.325J	mg/kg	NC		20
Chromium, Total	13.4	13.0	mg/kg	3		20
Lead, Total	133.	131	mg/kg	2		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1097991-4 QC Sample: L1808999-01 Client ID: DUP Sample						
Mercury, Total	0.09	0.09	mg/kg	2		20



**INORGANICS
&
MISCELLANEOUS**



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GYRODYNE-CATERING

Lab Number: L1808873

Project Number: GCA1705

Report Date: 03/21/18

SAMPLE RESULTS

Lab ID: L1808873-01
Client ID: EP-CP003
Sample Location: ST. JAMES, NY

Date Collected: 03/15/18 12:45
Date Received: 03/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	03/17/18 12:24	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: GYRODYNE-CATERING
Project Number: GCA1705

Lab Number: L1808873
Report Date: 03/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1098040-1 QC Sample: L1809035-01 Client ID: DUP Sample						
Solids, Total	87.8	87.1	%	1		20



NYSCEF DOC NO: 48 **Project Name:** GYRODYNE-CATERING

FILED NYSCFB: 06/14/2022
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Lab Number: 1808873

Project Number: GCA1705

Report Date: 03/21/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1808873-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.7	Y	Absent		NYSUFFOLK-8260(14),TS(7)
L1808873-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L1808873-01X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYSUFFOLK-8260(14)
L1808873-01Y	Vial Water preserved split	A	NA		2.7	Y	Absent	17-MAR-18 13:31	NYSUFFOLK-8260(14)
L1808873-01Z	Vial Water preserved split	A	NA		2.7	Y	Absent	17-MAR-18 13:31	NYSUFFOLK-8260(14)



Project Name: GYRODYNE-CATERING

Lab Number:

Project Number: GCA1705

Report Date: 03/21/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers

Project Name: GYRODYNE-CATERING**Lab Number:****Project Number:** GCA1705**Report Date:** 03/21/18**Data Qualifiers**

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.
- 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: GYRODYNE-CATERING

Lab Number: L1808873 Page 1-1385

Project Number: GCA1705

Report Date: 03/21/18

REFERENCES

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

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.



NYSC **Alpha Analytical Inc.**

RECEIVED NYSC ID No: 17873
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Facility: **Company-wide**

Revision 11

Department: **Quality Assurance**

Published Date: 1/8/2018 4:15:49 PM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, 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; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


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

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 WESTBORO, MA 01581 4 Walker Dr. TEL: 508-898-0200 FAX: 508-898-2110	NEW YORK CHAIN OF CUSTODY	Service Centers Westboro, MA 01581: 35 Whitney Rd., Suite 2 Albany, NY 12205: 14 Walling Way Tompkins Co, NY 14850: 175 Cooper Ave., Suite 105	Page 1 of 1	Date Rec'd in Lab <u>03-16-2018</u>	ALPHA Job # <u>H1805873</u>				
Client Information Client: <u>PWGC</u> Address: <u>630 Johnson Ave Ste 7</u> <u>Bohemia, NY 11716</u> Phone: <u>(631) 589 6353</u> Fax: Email: <u>Thomas.m@pwgcs.com</u>		Project Information Project Name: <u>Gyrodyne Catering</u> Project Location: <u>St. James, NY</u> Project # <u>GCA1705</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input checked="" type="checkbox"/> Other <u>Results only</u>		Billing Information <input checked="" type="checkbox"/> Same as Client (info)			
Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre-approved) <input type="checkbox"/> # of Days:		Regulatory Requirements <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 815 <input type="checkbox"/> AWC Standard <input type="checkbox"/> NY CPL <input type="checkbox"/> RI Restricted Use <input type="checkbox"/> Other: <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of approved disposal facilities: Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)					
Please specify Metals or TAL:		Collection Date Time Sample Matrix Sampler's Initials		SCDS VOCs SCDS metals		Sample Specific Comments			
ALPHA Lab ID (See Lab Only)	Sample ID	Date	Time	Sample Matrix	Sampler's Initials	SCDS VOCs	SCDS metals	Sample Specific Comments	
<u>03211848</u>	<u>EP-C003</u>	<u>3/15/18</u>	<u>1245</u>	<u>S</u>	<u>NC</u>	<u>X</u>	<u>X</u>		
Preservative Codes: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₈ I/E = 10N AcNaOH O = Other		Container Codes: P = Plastic A = Amber Glass V = Vial Q = Quarts B = Beaker/Cup C = Can G = Glass E = Enamel D = BOD Bottle		Westboro: Certification No. MA655 Mansfield: Certification No. MA016		Container Type <u>A A</u> Preservative <u>A A</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side)	
Relinquished By: <u>[Signature]</u>		Date/Time: <u>3/15/18 1400</u>		Received By: <u>[Signature]</u>		Date/Time: <u>3-15-18 1531</u>			
Relinquished By: <u>[Signature]</u>		Date/Time: <u>2/15/18 1513</u>		Received By: <u>[Signature]</u>		Date/Time: <u>2/15/18 1513</u>			
Relinquished By: <u>[Signature]</u>		Date/Time: <u>3/15/18 1245</u>		Received By: <u>[Signature]</u>		Date/Time: <u>3/15/18 1245</u>			

APPENDIX C WASTE MANIFESTS

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140948
Date: 3/6/2018
Time: 14:10:24 - 14:47:48

Gross: 72240 lb In Scale 1
Tare: 50380 lb Out Scale 1
Net: 21860 lb

Truck: 7011
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

License: RB03361

Comment:

Manifest: 22804

Origin	Materials & Services	Quantity	Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	10.93	Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
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

22804

Non Hazardous Waste Manifest

PERMIT # 1-4720-00317/00001

TRUCK # 7011
WO # 39643C

Generator of Waste Material

1. Customer Name: Gyrodyne Catering Hall 2. Phone Number: _____

3. Street Address: 1 FLOWERFIELD 4. City/State/Zip: SAINT JAMES, NY 11780

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: 3/6/18
Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)			QUANTITY	NYS DEC N-CODE
	Cubic Yards	Gallons	Tons		
<u>NON HAZ DEBRIS</u>	<u>(Circled)</u>			<u>10</u>	<u>2A-263</u>

Others and special handling instructions, if any:

18205

Transporter of Waste

NOTE: TRANSPORTER SIGNATURE REQUIRED

1. Company Name: Clear Brook 2. Address: 972 NICOLLS RD DEER PARK NY

3. Phone: (631) 586-0002 4. Pump Out Date: 3/6/18

5. Vehicle License No: 21498MG 6. NYS DEC Permit No: _____

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: OSCAR MARQUINA Signature: [Signature] Date: 3/6/18

Acceptance by ClearBrook

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

Transfer Date: 3-6-18 Time: _____ Sample ID# _____

Signature of Authorized Agent: [Signature] Print Name: ANNE WAGNER

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

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140950
Date: 3/6/2018
Time: 14:17:01 - 14:51:18

Truck: 7007
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

License: 25107MD

Gross: 67260 lb In Scale 1
Tare: 46140 lb Out Scale 1
Net: 21120 lb

Comment:

Manifest: 27192

Origin	Materials & Services	Quantity	Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	10.56	Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
NANCY WAGNER

Waste Manifest Number

27192



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

TRUCK 7007
WORK 396437

PERMIT # 1-4720-00317/00001

Generator of Waste Material

Gyrodyne

1. Customer Name: CATERING HALL 2. Phone Number: _____
3. Street Address: 1 FLOWERFIELD 4. City/State/Zip: SAINT JAMES, NY

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: 3/6/18
Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)			QUANTITY	NYS DEC N-CODE
	Cubic Yards	Gallons	Tons		
<u>Non Hazardous</u>	<u>(Circled)</u>			<u>15 Yard</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
3. Phone: (631) 586-0002 4. Pump Out Date: 3/6/18
5. Vehicle License No: 25107 MD 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: Jose Gomez Signature: [Signature] Date: 3/6/18

Acceptance by ClearBrook

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

Transfer Date: 3-6-18 Time: _____ Sample ID# _____
Signature of Authorized Agent: [Signature] Print Name: Nancy Unger

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1141439
Date: 3/14/2018
Time: 12:26:10 - 13:02:20

Gross: 63460 lb In Scale 1
Tare: 44800 lb Out Scale 1
Net: 18660 lb

License: RA92750

Truck: 7010
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

Carrier: Clearbrook
Comment:

Manifest: 28078

Origin	Materials & Services	Quantity Unit
7/SUFFOLK	SANTYGRIT/Sanitary Grit	9.33 Ton

Drivers: _____

Deputy Weighmaster:

Nancy Wagner
NANCY WAGNER



Waste Manifest Number

28078

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

Non Hazardous Waste Manifest

New York State DEC Licensed Transfer Facility
BIC # 1272

PERMIT # 1-4720-00317/00001

Truck # 7010
W03 396918

Generator of Waste Material

1. Customer Name: Catering Hall 2. Phone Number: _____
3. Street Address: 1 Flowerfield 4. City/State/Zip: Saint James 11780

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] Agent of Gyrodyne Date: 3/14/18
+ Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)	QUANTITY	NYS DEC N-CODE
<u>non haz solid material</u>	<u>Cubic Yards</u> Gallons Tons	<u>15</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: 3/14/18
5. Vehicle License No: 21497-MG 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: Anthony Williams Signature: [Signature] Date: 3/14/18

Acceptance by ClearBrook

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

Transfer Date: 3-14-18 Time: _____ Sample ID# _____
Signature of Authorized Agent: [Signature] Print Name: Nancy Weger

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1141445
Date: 3/14/2018
Time: 16:40:27 - 17:13:54

Gross: 60960 lb In Scale 1
Tare: 48400 lb Out Scale 1
Net: 12560 lb

Truck: 7010
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

License: RA92750

Carrier: Clearbrook
Comment:

Manifest: 28079

Origin	Materials & Services	Quantity Unit
7/SUFFOLK	SANTYGRIT/Sanitary Grit	6.28 Ton

Drivers: _____

Deputy Weighmaster: _____

Nancy Wagner
NANCY WAGNER



Waste Manifest Number
28079

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

Non-Hazardous Waste Manifest

New York State DEC Licensed Transfer Facility
BIC # 1272

Truck # 7010
WOT# 397216

PERMIT # 1-4720-00317/00001

Generator of Waste Material

1. Customer Name: Catering Hall 2. Phone Number: _____
3. Street Address: 1 Flower Field 4. City/State/Zip: Saint James NY 11780

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: Nicholas Iannucci Agent of Eurodyne Date: 3/14/18
Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)			QUANTITY	NYS DEC N-CODE
	Cubic Yards	Gallons	Tons		
<u>non-haz solid material</u>				<u>10</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: 3/14/18
5. Vehicle License No: 21497-UG 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: Anthony Williams Signature: Anthony Williams Date: 3/14/18

Acceptance by ClearBrook

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

Transfer Date: 3/14/18 Time: _____ Sample ID# _____
Signature of Authorized Agent: Nancy Wagner Print Name: Nancy Wagner

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

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

MANIFEST NUMBER		
Part 1	Part 2	Part 3
3-14-18	7:10	204925
Date of Pick-Up (Use 2 Digit Numbers) Example 040103	Time of Pick-Up (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: <u>8,000</u>	Wt. In:		Wt. Out:		
B. Type:	<input type="checkbox"/> Condensate Water	<input type="checkbox"/> Decant Grease	<input checked="" 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 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) CAFETERIA HALL B. Tel. No: _____

C. Complete Pickup Address: 1 FLOWERFIELD SAINT JAMES

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] Agent of Guidyne Date: 3-14-18

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

A. Company name (print or type): CLEARBROOK
B. SCDPW Permit No. 800353 C. Vehicle License No. 8F14101 D. Pump Out Date: 3-14-18
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: KAMON MARTINEZ

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: 3/14/18 Sample ID No.: 204925

Signature of authorized agent and title: _____

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

*Envoir
Clear Flo*

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

MANIFEST NUMBER		
Part 1	Part 2	Part 3
03/06/18	10:30 AM	204406
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: 7,000	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
			<input type="checkbox"/> Sludge
			<input type="checkbox"/> Leachate
			<input type="checkbox"/> Storm Water
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) Celery Hall - Garden B. Tel. No: _____

C. Complete Pickup Address: 1 Flower Hill Rd 50 Jan 9

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] (95 994) Date: 3/5/18

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

A. Company name (print or type): Direct Draining

B. SCDPW Permit No: 215-6 C. Vehicle License No: BC6897 Pump Out Date: 3/6/18

E. NYS DEC Permit No: 1A-628

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: 3-6-18 Sample ID No: 204406

Signature of authorized agent and title: [Signature]

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

[Handwritten Signature]

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

MANIFEST NUMBER		
Part 1	Part 2	Part 3
31518	794	204360
Date of Pick-Up (Use 2 Digit Numbers) Example 040103	Time of Pick-Up (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: 7,000	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 checked="" type="checkbox"/> Office/Commercial	<input type="checkbox"/> Municipal	<input checked="" 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): Clear Flo Technologies B. Tel. No: _____

C. Complete Pickup Address: 11 Plaza Road, J. J. Jada

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] (as agent) Date: 3/5/18

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

A. Company name (print or type): Diversified Resources
B. SCDPW Permit No: 2756 C. Vehicle License No: 26857 D. Pump Out Date: 3/6/18
E. NYS DEC Permit No: 18-628

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: 3-6-18 Sample ID No: 204360

Signature of authorized agent and title: [Signature]

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

NYSCEF DOC. NO. 48

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

MANIFEST NUMBER		
Part 1	Part 2	Part 3
3/16/18	6:35am	204362
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: 5000	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	<input type="checkbox"/> Sludge
		Other:	
C. Source	<input checked="" 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) CATERING HALL B. Tel. No: _____

C. Complete Pickup Address: 1 FLOWERFIELD SAINT JAMES, NY 11780

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] Agent of Gyrodyne Date: 3/16/18

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. 9063325 C. Vehicle License No. 8055422 D. Pump Out Date: 3/16/18

E. NYS DEC Permit No.: 70263

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: 3-6-18 Sample ID No.: 204362

Signature of authorized agent and title: [Signature]

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

**GYRODYNE PROPERTY (INDUSTRIAL AREA)
1 FLOWERFIELD
ST. JAMES, NEW YORK**

REMEDIATION REPORT

SUBMITTED TO:



Suffolk County Department of Health Services
Office of Pollution Control
15 Horseblock Place
Farmingville, New York 11738

ON BEHALF OF:

Gyrodyne, LLC
1 Flowerfield
St. James, New York 11780

PREPARED BY:



P.W. Grosser Consulting, Inc.
630 Johnson Avenue, Suite 7
Bohemia, New York 11716
Phone: 631-589-6353
Fax: 631-589-8705

Thomas Melia, PG, Sr. Project Manager
Nicholas Iannucci, Field Hydrogeologist

thomasm@pwgrosser.com
niannucci@pwgrosser.com

PWGC Project Number: GCA1704

APRIL 2018



**REMEDIATION REPORT
1 FLOWERFIELD, ST. JAMES, NEW YORK (INDUSTRIAL AREA)**

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- Appendix B Laboratory Reports
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1.0 INTRODUCTION

This Remediation Report has been prepared by P.W. Grosser Consulting Inc. (PWGC), on behalf of Gyrodyne, LLC, for the property located at 1 Flowerfield (Industrial Area) in St. James, New York (subject property). This report documents the results of remedial activities performed at the above-referenced site. The scope of work was based upon PWGC's Phase II Environmental Site Assessment (ESA) for the site, additional sampling results, and the requirements of the Suffolk County Department of Health Services (SCDHS) for the subject site.

1.1 Site Description

The subject property is located at 1 Flowerfield in the Hamlet of St. James, New York. The site is located in the Town of Smithtown and Suffolk County. The property is identified in the Suffolk County Tax Map as:

- 0800-040.00-02.00-004.000
- 0800-040.00-02.00-013.003
- 0800-040.00-02.00-014.000
- 0800-040.00-02.00-015.000

The subject property measures approximately 62.4 acres and is occupied by multiple commercial/industrial buildings, identified as follows:

- Building 1 – Two story building with no basement. Used as office space.
- Building 2 – Single story building with no basement. Used as office and commercial space.
- Building 7 - Single story building (partial second story) with no basement. Used as office and commercial space.
- Building 8 - Single story building with no basement. Used as office and commercial space.
- Bus Depot – Fenced parking lot used for storage of school busses. No permanent structures are present.
- Fairgrounds – Empty fields located on the northern portion of the property. No permanent structures are present. Several portable toilets were present at the Fairgrounds during site reconnaissance.

A Vicinity Map is included as **Figure 1**; a site plan is included as **Figure 2**.

1.1 Environmental History

1.1.1 Phase I ESA

PWGC performed a Phase I ESA for the site in June 2017. PWGC's Phase I ESA identified the following Recognized Environmental Concerns (REC) for the Industrial Area portion of the subject property:

- The site is currently and has historically been used for industrial purposes, including woodworking,

auto repair, machine shop, and HVAC, from the 1960s to present. The usages are commonly associated with the storage and use of hazardous substances and petroleum products at the site; usage/storage of such materials was confirmed in several locations during site reconnaissance. The presence of onsite sanitary systems, floor drains, and storm water drywells associated with the industrial portion of the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past.

- Multiple current and past tenants within the industrial portion of the site are identified as RCRA hazardous waste generators, dating back to at least 1987 based on database records. As such, it can be assumed that hazardous wastes have been generated and stored at the site for at least 30 years. The presence of onsite sanitary systems, floor drains, and storm water drywells associated with the industrial portion of the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past.
- Several chemical storage areas were observed at the site during site reconnaissance. Chemicals identified included waste oil and automotive fluids, paints, stains, solvents, and landscaping and maintenance supplies. The presence of onsite sanitary systems, floor drains, and storm water drywells associated with the property, represent pathways for such substances to potentially have been released to the environment. Such releases have been documented at the site in the past.
- Multiple floor drains, sanitary systems and storm drains were identified at the site. Floor drains were identified within the Building 7 boiler rooms. Each active building at the site is equipped with at least one onsite sanitary system. Multiple sanitary systems were observed at Building 1 (two systems), and Building 7 (five systems). Multiple storm drains and catch basins were observed throughout the paved portions of the site. Industrial area sanitary systems and storm drains were sampled in 2011. At that time, multiple structures were determined to be impacted, and remediated under the oversight of SCDHS. Remediation was successful and SCDHS issued a No Further Action letter to the site. As the industrial usage of the site, which presumably caused the impact identified in 2011, has continued, it is possible that additional discharges have occurred since remediation was completed.

1.1.2 Phase II ESA

Based on the findings of the Phase I ESA, PWGC conducted a Phase II ESA for the subject property in September 2017. The Phase II ESA consisted of the following:

- Characterization sampling of the Industrial Area sanitary systems and storm drains.

Based on conversations with SCDHS, characterization sampling included primary sanitary structures (e.g., septic tanks and primary cesspools), storm drains remediated in 2011, and additional storm drains identified by field screening.

Based on the results of the Phase II ESA, PWGC offered the following conclusions:

- A total of 17 soil samples were collected from sanitary structures within the Industrial Area.
- Of the 17 sanitary structures sampled, 13 contained VOC, SVOC, or metals impact in excess of SCDHS Action Levels.
- A total of four soil samples were collected from onsite storm water drains.
- Of the four storm drains sampled, two contained SVOC impact in excess of SCDHS Action Levels.
- Based on analytical results a total of 13 sanitary structures and 2 storm drains required remediation in accordance with SCDHS procedures.

1.1.3 Remediation Work Plan

The September 2017 Phase II ESA was submitted to SCDHS. Based upon their review of the Phase II ESA, SCDHS required characterization sampling of four additional secondary sanitary structures and four additional storm drains. Sample results for these structures were below SCDHS Action Levels. Following completion of additional sampling, SCDHS issued a Notice to Remediate (NTR) indicating that:

- Impacted structures identified in the Phase II ESA be properly remediated.
- Collection of characterization samples from storm drain SD19, and the final discharge point of two white PVC pipes on the south side of Building 2 (later determined to be storm drain SD20).
- Permanent disconnection of the interior sink effluent sources from storm drains SD10, SD15, and SD18.

In December 2017, PWGC submitted a Work Plan to SCDHS documenting the additional characterization sampling described above, and detailing a remedial scope of work to address the requirements of the NTR. The Work Plan was approved by SCDHS in January 2018.

A copy of the NTR is included in **Appendix A**.

2.0 REMEDIAL ACTIVITIES

Based on the Phase II ESA, and SCDHS directive PWGC performed remedial activities at the site consisting of the following:

- Remediation of onsite sanitary structures 7ST, 9ST, 9ST1, 9SLPC, 9PLP, 10ST, 12ST, 12PLP, 12PLP1 (MH-1), 13ST, 13PLP, 11ST, 11SLP, AND 14ST.
- Remediation of storm drains SD13 and SD17.
- Characterization sampling of storm drains SD19 and SD20.
- Permanent disconnection of interior sink effluent sources from storm drains SD10, SD15 and SD18.

2.1 Remediation

Based on the findings of PWGC's Phase II ESA, onsite sanitary structures 7ST, 9ST, 9ST1, 9SLPC, 9PLP, 10ST, 12ST, 12PLP, 12PLP1 (MH-1), 13ST, 13PLP, 11ST, 11SLP, AND 14ST were remediated from February 26, 2018 to March 5, 2018 in accordance with SCDHS requirements. Remedial activities were performed by Clearbrook of Deer Park, New York under the oversight of PWGC personnel. It should be noted that initially, structure 13ST was believed to be a solid bottom septic tank, however during remediation, PWGC discovered that the floor of this structure is compromised (cracked and open to the soil below), and as such, was treated as a leaching structure.

2.1.1 Waste Removal

A vacuum powered pump truck was used to remove liquids from the previously mentioned structures. Following removal of liquids, a Guzzler was used to remove impacted sludge and sediment from the impacted structures until all solid material was removed or until clean native material was encountered, dependent on the nature of the structure.

2.1.2 Endpoint Sample Collection

Following removal of sediments from the remediated structures, a confirmatory endpoint soil sample was collected from the base of cesspools 9PLP, 9SLPC, 12PLP1(MH-1), 12PLP, 13PLP, and 11SLP, septic tank 13ST, and storm drains SD13 and SD17 to document the effectiveness of the cleanout. Endpoint samples were collected using a properly decontaminated hand auger, placed in laboratory supplied glassware, and stored in a cooler on ice for transport to the laboratory. SCDHS personnel were onsite to inspect each structure following remediation and to observe sampling of the structures.

As septic tanks 7ST, 9ST, 9ST1, 10ST, 12ST, 11ST, and 14ST are solid bottom structures, no confirmatory

endpoint samples were required.

2.1.3 Laboratory Analysis

Samples were collected in pre-cleaned laboratory supplied glassware and stored in a cooler packed with ice for shipment to the analytical laboratory. Samples were delivered under proper chain-of-custody procedures to Alpha Analytical, Inc. of Westborough, Massachusetts, a NYSDOH ELAP certified laboratory.

Endpoint sample analysis was targeted based upon which compounds exceeded SCDHS Action Levels in each structure. As such, samples were collected for these structures based on the following:

Impacted Structures	Contaminants Targeted
SD-13, SD-17	SVOCs
9PLP, 9SLPC, 12PLP, 13ST, 13PLP	VOCs
12PLP1(MH-1)	VOCs, Metals
11SLP	VOCs, SVOCs

2.1.4 Analytical Results

Endpoint soil sample results were compared to the Cleanup Objectives specified in SCDHS SOP 9-95, Pumpout and Soil Cleanup Criteria. Analytical data is summarized in **Tables 1, 2, and 3**; laboratory analytical reports are included in **Appendix B**.

Endpoint soil samples collected from the structures did not contain impact above SCDHS Cleanup Objectives. As such, it appears the remedial effort on these structures were successful.

2.2 Waste Disposal

Wastes generated during UIC remediation were disposed of at properly permitted facilities, as detailed below. Copies of waste manifests and disposal recipes are included as **Appendix C**.

2.2.1 Soil Disposal

An estimated total of 95.43 tons of non-hazardous sludge and sediment were generated during remediation. Non-hazardous solids were disposed of at Clearbrook of Deer Park New York.

2.2.2 Liquid Disposal

An estimated of 23,000 gallons of non-hazardous liquids were generated during remediation. Liquids were disposed of at Clear Flo Technologies, Inc. of North Lindenhurst, New York.

2.3 Additional Characterization Sampling

In accordance with the NTR, PWGC collected characterization samples from storm drains SD19 and SD20. Storm drain SD20 was confirmed via dye testing to be the discharge point for the two white PVC pipes on the south side of Building 2.

2.3.1 Sample Collection

Samples were collected using a properly decontaminated hand auger, placed in laboratory supplied glassware, and stored in a cooler on ice for transport to the laboratory.

2.3.2 Laboratory Analysis

Samples were collected in pre-cleaned laboratory supplied glassware and stored in a cooler packed with ice for shipment to the analytical laboratory. Samples were delivered under proper chain-of-custody procedures to Alpha Analytical, Inc. of Westborough, Massachusetts, a NYSDOH ELAP certified laboratory. Samples were analyzed for SCDHS List VOCs, SVOCs, and metals.

2.3.3 Analytical Results

Sample results were compared to the Action Levels specified in SCDHS SOP 9-95, Pumpout and Soil Cleanup Criteria. Analytical data is summarized in **Tables 1, 2, and 3**; laboratory analytical reports are included in **Appendix B**.

Samples collected from storm drains SD19 and SD20 did not contain impact above SCDHS Action Levels. As such, no remediation of these structures was necessary.

2.4 Effluent Source Removal

As directed by SCDHS, sinks within Building 2 and Building 8 discharging to exterior storm drains in violation of the Suffolk County Sanitary Code, have been permanently disconnected. Photo documentation is included in **Appendix D**.

3.0 CONCLUSIONS AND RECOMMENDATIONS

PWGC implemented a remediation program for UIC structures at the property located at 1 Flowerfield (Industrial Area), St. James, New York. The scope of work was based upon PWGC's Phase II ESA for the site and the requirements of SCDHS for the subject site, and consisted of:

- Remediation of onsite sanitary structures 7ST, 9ST, 9ST1, 9SLPC, 9PLP, 10ST, 12ST, 12PLP, 12PLP1 (MH-1), 13ST, 13PLP, 11ST, 11SLP, AND 14ST.
- Remediation of storm drains SD13 and SD17.
- Permanent disconnection of interior sink effluent sources from storm drains SD10, SD15 and SD18.

3.1 Remedial Activities

The scope of work for remediation consisted of the removal of liquids and sediment from seven septic tanks, six cesspools, and two storm drains containing impact exceeding SCDHS Action Levels. Remedial activities were performed by Clearbrook of Deer Park, New York under the oversight of PWGC personnel. An estimated total of 95.43 tons of non-hazardous soils were generated during remediation. Non-hazardous soils were disposed of at Clearbrook of Deer Park New York. An estimated total of 23,000 gallons of non-hazardous liquids were generated during remediation. Liquids were disposed of at Clear Flo Technologies, Inc. of North Lindenhurst, New York, New York.

3.2 Endpoint Sample Data

Confirmatory endpoint soil samples were collected from the base of structures 9PLP, 9SLPC, 12PLP1 (MH-1), 12PLP, 13ST, 13PLP, 11SLP, SD13, AND SD17 to document the effectiveness of the cleanout. As septic tank 7ST, 9ST, 10ST, 12ST, 11ST, and 14ST are solid bottom (non-leaching) structures, no endpoint sample was necessary. Endpoint sample analysis was targeted based upon which compounds exceeded SCDHS Action Levels in each structure.

Contaminant concentrations in the endpoint soil samples collected from these structures were below SCDHS Cleanup Objectives.

3.3 Additional Characterization Sampling

In accordance with the NTR, PWGC collected characterization samples from storm drains SD19 and SD20. Samples collected from storm drains SD19 and SD20 did not contain impact above SCDHS Action Levels.

3.4 Effluent Source Removal

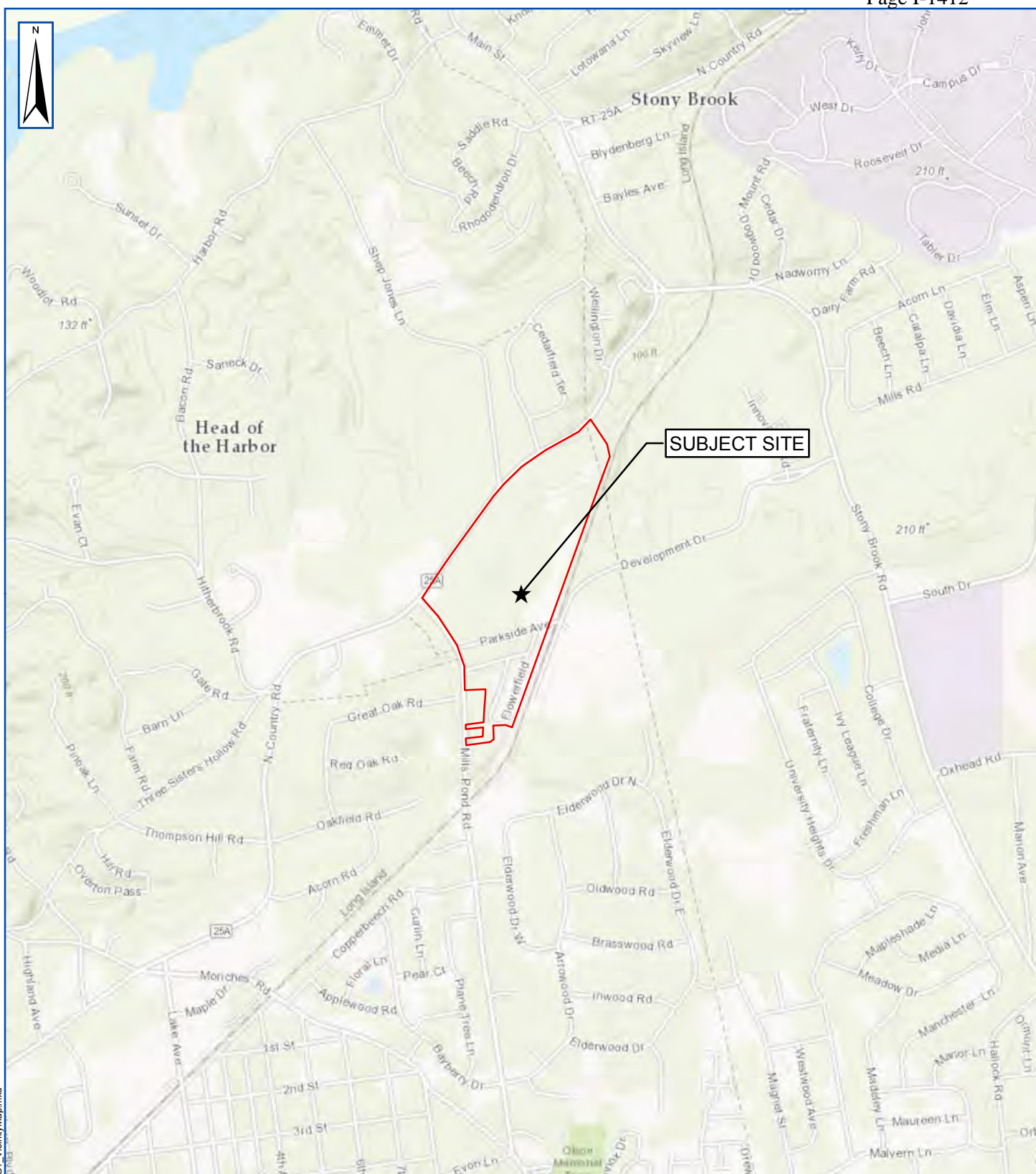
As directed by SCDHS, sinks within Building 2 and Building 8 discharging to exterior storm drains in violation of

the Suffolk County Sanitary Code, have been permanently disconnected.

3.5 Recommendations

Based on endpoint sample results, it appears that the remedial effort was successful, and PWGC recommends that a No Further Action letter be issued for the site.

FIGURES



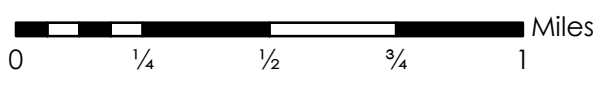
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SUBJECT SITE VICINITY
FLOWERFIELD INDUSTRIAL PARK
ST JAMES, NY



Project:	GCA1701
Date:	8/17/2017
Designed by:	TM
Drawn by:	JCG
Approved by:	TM
Figure No:	1



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Project:	GCA1704	Designed by:	KC
Date:	1/26/2018	Drawn by:	JCG
Scale:	AS SHOWN	Approved by:	TM

SITE PLAN

FLOWERFIELD INDUSTRIAL
ST JAMES, NY

FIGURE NO:
2

TABLES

Table 1

Soil Sample Analytical Results - Volatile Organic Compounds
 Gyrodyne Property (Industrial Area)
 St. James, New York

CLIENT SAMPLE ID:	CAS Number	SCDHS Action Level	SCDHS Cleanup Objective	EP-9PLP L1806744-02 2/27/2018	EP-9SLPC L1806744-01 2/27/2018	EP-11SLP L1807506-01 3/5/2018	EP-12PLP L1807506-04 3/5/2018	EP-12PLP1 (MH-1) L1806744-03 2/27/2018	EP-13ST L1807506-02 3/5/2018	EP-13PLP L1807506-03 3/5/2018	SD-19 1/25/2018 L1802820-02	SD-20 1/25/2018 L1802820-01
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	630-20-6	600	300	0.3 U	0.34 U	0.27 U	0.33 U	0.38 U	0.4 U	0.31 U	2.1 U	1.2 U
1,1,1-Trichloroethane	71-55-6	1,400	700	0.33 U	0.37 U	0.3 U	0.36 U	0.42 U	0.44 U	0.34 U	2.1 U	1.2 U
1,1,2,2-Tetrachloroethane	79-34-5	800	400	0.28 U	0.32 U	0.25 U	0.3 U	0.36 U	0.38 U	0.29 U	2.1 U	1.2 U
1,1,2-Trichloroethane	79-00-5	200	100	0.29 U	0.33 U	0.26 U	0.32 U	0.37 U	0.39 U	0.3 U	3.2 U	1.8 U
1,1-Dichloroethane	75-34-3	600	300	0.25 U	0.28 U	0.23 U	0.28 U	0.32 U	0.34 U	0.26 U	3.2 U	1.8 U
1,1-Dichloroethene	75-35-4	600	300	0.35 U	0.39 U	0.32 U	0.38 U	0.44 U	0.47 U	0.36 U	2.1 U	1.2 U
1,1-Dichloropropene	563-58-6	200	100	0.31 U	0.35 U	0.28 U	0.34 U	0.39 U	0.41 U	0.32 U	10 U	6 U
1,2,3-Trichlorobenzene	87-61-6	17,000	8,300	0.23 U	0.26 U	0.21 U	0.26 U	0.3 U	0.32 U	0.24 U	10 U	6 U
1,2,3-Trichloropropane	96-18-4	100	50	0.16 U	0.19 U	0.15 U	0.18 U	0.21 U	0.22 U	0.17 U	21 U	12 U
1,2,4,5-Tetramethylbenzene	95-93-2	18,000	8,800	0.14 U	0.16 U	0.13 U	0.15 U	1.4 J	0.2 U	0.15 U	0.72 J	0.75 J
1,2,4-Trichlorobenzene	120-82-1	17,000	8,300	0.2 U	0.23 U	0.18 U	0.22 U	0.26 U	0.27 U	0.21 U	10 U	6 U
1,2,4-Trimethylbenzene	95-63-6	7,200	3,600	0.17 U	0.2 U	0.16 U	1.8 J	6	0.23 U	0.18 U	0.79 J	1.3 J
1,2-Dibromo-3-chloropropane	96-12-8	100	50	0.37 U	0.42 U	0.34 U	0.41 U	0.47 U	0.5 U	0.38 U	10 U	6 U
1,2-Dibromoethane	106-93-4	600	300	0.18 U	0.21 U	0.17 U	0.2 U	0.24 U	0.25 U	0.19 U	8.4 U	4.8 U
1,2-Dichlorobenzene	95-50-1	2,200	1,100	0.17 U	0.19 U	0.15 U	0.29 J	0.72 J	0.23 U	0.18 U	10 U	6 U
1,2-Dichloroethane	107-06-2	100	50	0.23 U	0.26 U	0.21 U	0.25 U	0.29 U	0.31 U	0.24 U	2.1 U	1.2 U
1,2-Dichloropropane	78-87-5	100	50	0.21 U	0.24 U	0.19 U	0.23 U	0.27 U	0.29 U	0.22 U	7.4 U	4.2 U
1,3,5-Trimethylbenzene	108-67-8	16,800	8,400	0.15 U	0.17 U	0.14 U	2.2 J	2.5 J	0.2 U	0.16 U	0.53 J	0.69 J
1,3-Dichlorobenzene	541-73-1	4,800	2,400	0.2 U	0.23 U	0.18 U	0.22 U	0.26 U	0.28 U	0.21 U	10 U	6 U
1,3-Dichloropropane	142-28-9	600	300	0.17 U	0.19 U	0.16 U	0.19 U	0.22 U	0.23 U	0.18 U	10 U	6 U
1,4-Dichlorobenzene	106-46-7	3,600	1,800	0.5 J	0.8 J	0.42 J	1 J	2.3 J	0.24 J	0.18 U	10 U	1.9 J
2,2-Dichloropropane	594-20-7	600	300	0.42 U	0.48 U	0.38 U	0.46 U	0.54 U	0.57 U	0.44 U	10 U	6 U
2-Butanone	78-93-3	400	200	0.64 U	0.73 U	2.6 J	0.71 U	0.82 U	0.87 U	0.67 U	70	27
4-Methyl-2-pentanone	108-10-1	1,400	700	0.23 U	0.26 U	0.21 U	0.25 U	0.29 U	0.31 U	0.24 U	21 U	12 U
Acetone	67-64-1	**	**	250	11	12	6.1 J	22	54	10	170	110
Benzene	71-43-2	120	60	0.18 U	0.2 U	0.16 U	0.92 J	0.76 J	0.24 U	0.19 U	2.1 U	1.2 U
Bromobenzene	108-86-1	2,800	1,400	0.2 U	0.23 U	0.18 U	0.22 U	0.26 U	0.28 U	0.21 U	10 U	6 U
Bromochloromethane	74-97-5	400	200	0.33 U	0.38 U	0.3 U	0.37 U	0.43 U	0.45 U	0.35 U	10 U	6 U
Bromodichloromethane	75-27-4	4,600	2,300	0.29 U	0.33 U	0.26 U	0.32 U	0.37 U	0.39 U	0.3 U	2.1 U	1.2 U
Bromoform	75-25-2	13,000	6,300	0.22 U	0.25 U	0.2 U	0.24 U	0.28 U	0.3 U	0.23 U	8.4 U	4.8 U
Carbon tetrachloride	56-23-5	1,600	800	0.32 U	0.36 U	0.29 U	0.35 U	0.41 U	0.44 U	0.34 U	2.1 U	1.2 U
Chlorobenzene	108-90-7	2,200	1,100	0.36 J	0.47 J	0.41 J	4.1	11	0.44 U	0.34 U	2.1 U	1.2 U
Chloroethane	75-00-3	400	200	0.3 U	0.33 U	0.27 U	0.32 U	0.38 U	0.4 U	0.31 U	4.2 U	2.4 U
Chloroform	67-66-3	800	400	0.34 U	0.39 U	0.31 U	0.38 U	0.44 U	0.47 U	0.36 U	3.2 U	1.8 U
cis-1,2-Dichloroethene	156-59-2	500	250	0.32 U	0.36 U	0.29 U	0.35 U	0.41 U	0.43 U	0.33 U	2.1 U	1.2 U
cis-1,3-Dichloropropene	10061-01-5	100	50	0.22 U	0.24 U	0.2 U	0.24 U	0.28 U	0.29 U	0.22 U	2.1 U	1.2 U
Dibromochloromethane	124-48-1	6,200	3,100	0.16 U	0.19 U	0.15 U	0.18 U	0.21 U	0.22 U	0.17 U	2.1 U	1.2 U
Dibromomethane	74-95-3	400	200	0.22 U	0.25 U	0.2 U	0.24 U	0.28 U	0.3 U	0.23 U	21 U	12 U
Dichlorodifluoromethane	75-71-8	600	300	0.47 U	0.53 U	0.42 U	0.51 U	0.6 U	0.63 U	0.49 U	21 U	12 U
Ethylbenzene	100-41-4	2,000	1,000	0.16 U	0.18 U	0.14 U	2.3	0.2 U	0.42 J	0.16 U	0.49 J	1.2 U
Freon-113	76-13-1	12,000	6,000	0.48 U	0.54 U	NA	NA	0.61 U	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	54,000	27,000	0.32 U	0.37 U	0.29 U	0.36 U	0.42 U	0.44 U	0.34 U	10 U	6 U
Isopropylbenzene	98-82-8	9,400	4,700	0.18 U	0.2 U	0.16 U	0.39 J	0.23 U	0.41 J	0.19 U	2.1 U	1.2 U
Methyl tert butyl ether	1634-04-4	200	100	0.14 U	0.16 U	0.13 U	0.16 U	0.18 U	0.19 U	0.15 U	4.2 U	2.4 U
Methylene chloride	75-09-2	100	50	1.5 U	1.7 U	1.4 U	1.7 U	2 U	2.1 U	1.6 U	21 U	12 U
n-Butylbenzene	104-51-8	12,000	5,900	0.21 U	0.24 U	0.19 U	0.23 U	1.2	0.29 U	0.22 U	0.82 J	0.54 J
n-Propylbenzene	103-65-1	8,000	4,000	0.2 U	0.23 U	0.18 U	0.91 J	0.69 J	0.27 U	0.21 U	0.64 J	0.44 J
Naphthalene	91-20-3	24,000	12,000	0.13 U	0.15 U	0.12 U	0.92 J	2.1 J	0.17 U	0.13 U	1.6 J	1.7 J
o-Chlorotoluene	95-49-8	5,200	2,600	0.21 U	0.23 U	0.19 U	0.23 U	0.26 U	0.28 U	0.22 U	10 U	6 U
o-Xylene	95-47-6	NS	1,600	0.32 U	0.36 U	0.29 U	6	0.72 J	0.43 U	0.33 U	2.2 J	2.4 U
p-Chlorotoluene	106-43-4	5,200	2,600	0.17 U	0.19 U	0.16 U	0.19 U	0.22 U	0.23 U	0.18 U	10 U	6 U
p-Diethylbenzene	105-05-5	52,000	26,000	3.7 U	4.2 U	3.4 U	4.1 U	5.8	5 U	3.9 U	8.4 U	4.8 U
p-Ethyltoluene	622-96-8	9,000	4,500	0.22 U	0.25 U	0.2 U	3.4 J	3.3 J	0.3 U	0.23 U	8.4 U	0.59 J
p-Isopropyltoluene	99-87-6	22,000	11,000	0.48 J	0.5 J	0.17 U	0.38 J	1.5	1.5	0.2 U	1.1 J	2.2
p/m-Xylene	179601-23-1	NS	1,600	0.33 U	0.37 U	0.3 U	3.9	1.1 J	0.44 U	0.34 U	1.3 J	2.4 U
sec-Butylbenzene	135-98-8	12,000	5,900	0.2 U	0.23 U	0.18 U	0.22 U	0.75 J	0.27 U	0.21 U	2.1 U	0.83 J
Styrene	100-42-5	9,200	4,600	0.37 U	0.42 U	0.34 U	0.41 U	0.48 U	0.51 U	0.39 U	4.2 U	2.4 U
tert-Butylbenzene	98-06-6	12,000	5,900	0.23 U	0.26 U	0.21 U	0.25 U	0.3 U	0.31 U	0.24 U	10 U	6 U
Tetrachloroethane	127-18-4	2,600	1,300	0.28 U	0.32 U	0.26 U	0.31 U	0.36 U	0.38 U	0.29 U	2.1 U	1.2 U
Toluene	108-88-3	3,000	1,500	0.9 J	6.9	0.37 J	1.3 J	0.53 J	4.9	0.19 U	2.2 J	3.6
trans-1,2-Dichloroethene	156-60-5	400	200	0.22 U	0.26 U	0.2 U	0.25 U	0.29 U	0.3 U	0.23 U	3.2 U	1.8 U
trans-1,3-Dichloropropene	10061-02-6	100	50	0.19 U	0.22 U	0.18 U	0.21 U	0.25 U	0.26 U	0.2 U	2.1 U	1.2 U
Trichloroethene	79-01-6	1,000	500	0.28 U	0.32 U	0.26 U	0.31 U	0.36 U	0.38 U	0.29 U	2.1 U	1.2 U
Trichlorofluoromethane	75-69-4	1,600	800	0.39 U	0.44 U	0.35 U	0.43 U	0.5 U	0.53 U	0.4 U	10 U	6 U
Vinyl chloride	75-01-4	100	50	0.29 U	0.33 U	0.27 U	0.32 U	0.38 U	0.4 U	0.31 U	4.2 U	2.4 U

Notes:
 All concentrations are ug/kg (ppb)
 (1) Action Levels & Cleanup Objectives, SCDHS Article 12 - SOP 9-95, August 2010.
 ** - Standard is determined on a case by case basis
 Highlighted text denotes concentrations exceeding SCDHS Action Levels.
 NS - No Standard
 U - Indicates that the analyte was not detected above the laboratory MDL
 J - Estimated value

Table 2

Soil Sample Analytical Results - Semi-Volatile Organic Compounds
Gyrodyne Property (Industrial Area)
St. James, New York

CLIENT SAMPLE ID:	CAS Number	SCDHS Action Level	SCDHS Cleanup Objective	EP-11SLP L1807506-01 3/5/2018	EP-SD13 L1807506-05 3/5/2018	EP-SD17 L1807506-06 3/5/2018	SD-19 1/25/2018 L1802820-02	SD-20 1/25/2018 L1802820-01
Semi-Volatile Organic Compounds								
Acenaphthene	83-32-9	200,000	98,000	54,000 U	170 U	140 U	290 U	190 U
Anthracene	120-12-7	200,000	100,000	40,000 U	120 U	110 U	210 U	140 U
Benzo(a)anthracene	56-55-3	2,000	1,000	40,000 U	29 J	110 U	330	75 J
Benzo(a)pyrene	50-32-8	44,000	22,000	54,000 U	170 U	140 U	460	89 J
Benzo(b)fluoranthene	205-99-2	3,400	1,700	40,000 U	55 J	110 U	830	170
Benzo(ghi)perylene	191-24-2	200,000	100,000	54,000 U	33 J	140 U	400	96 J
Benzo(k)fluoranthene	207-08-9	3,400	1,700	40,000 U	120 U	110 U	240	49 J
Chrysene	218-01-9	2,000	1,000	40,000 U	38 J	110 U	560	130 J
Dibenzo(a,h)anthracene	53-70-3	200,000	100,000	40,000 U	120 U	110 U	95 J	140 U
Fluoranthene	206-44-0	200,000	100,000	40,000 U	62 J	110 U	760	190
Fluorene	86-73-7	200,000	100,000	68,000 U	210 U	180 U	36 J	230 U
Indeno(1,2,3-cd)pyrene	193-39-5	16,000	8,000	54,000 U	34 J	140 U	410	93 J
Phenanthrene	85-01-8	200,000	100,000	40,000 U	120 U	110 U	240	91 J
Pyrene	129-00-0	200,000	100,000	40,000 U	47 J	110 U	690	190

Notes:

All concentrations are ug/kg (ppb)

(1) Action Levels & Cleanup Objectives, SCDHS Article 12 - SOP 9-95, August 2010.

** - Standard is determined on a case by case basis

Highlighted text denotes concentrations exceeding SCDHS Action Levels.

NS - No Standard

U - Indicates that the analyte was not detected above the laboratory MDL

J - Estimated value

Table 3

Soil Sample Analytical Results - Total Metals
 Gyrodyne Property (Industrial Area)
 St. James, New York

CLIENT SAMPLE ID:	CAS Number	SCDHS	SCDHS	EP-12PLP1(MH-1)	SD-19	SD-20
LABORATORY ID:		Action	Cleanup	2/27/2018	1/25/2018	1/25/2018
SAMPLING DATE		Level	Objective	L1806744-03	L1802820-02	L1802820-01
Total Metals						
Arsenic, Total	7440-38-2	30	6	1.51	2.14	10.8
Barium, Total	7440-39-3	4,000	820	49	46.6	165
Beryllium, Total	7440-41-7	240	47	0.052 J	0.226 J	0.106 J
Cadmium, Total	7440-43-9	40	8	0.406 J	1.2	19.5
Chromium, Total	7440-47-3	100	20	14.7	23.4	90.3
Copper, Total	7440-50-8	8,500	1,700	99.1	152	367
Lead, Total	7439-92-1	2,000	450	24.7	66.5	1240
Mercury, Total	7439-97-6	3.7	0.7	1.8	0.26	0.17
Nickel, Total	7440-02-0	650	130	5.08	10.7	68.6
Selenium, Total	7782-49-2	NS	NS	0.804 J	NA	NA
Silver, Total	7440-22-4	50	10	0.484 J	0.871 U	0.475 J

Notes:

All concentrations are mg/kg (ppm)

(1) Action Levels & Cleanup Objectives, SCDHS Article 12 - SOP 9-95, August 2010.

** - Standard is determined on a case by case basis

Highlighted text denotes concentrations exceeding SCDHS Action Levels.

NS - No Standard

U - Indicates that the analyte was not detected above the laboratory MDL

J - Estimated value

APPENDIX A CORRESPONDENCE

COUNTY OF SUFFOLK



STEVEN BELLONE
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

JAMES L. TOMARKEN, MD, MPH, MBA, MSW
COMMISSIONER

December 15, 2017

Gyrodyne LLC
1 Flowerfield, Suite 24
Saint James, NY 11780

Re: **Flowerfield Industrial Park and Catering**
1 Flowerfield, Saint James, NY

SCFR# 04458

Dear Sir or Madam,

This letter is to advise you that our office has reviewed the environmental assessment performed by PWG Consulting at the above-referenced location. Review of the laboratory analyses provided found one or more of the following compounds present in the sample(s) collected: *volatile organic compounds, semi-volatile organic compounds, and/or heavy metals*. The compounds found are present at concentrations indicative of unpermitted discharges of industrial waste.

Compounds that have exceeded the Suffolk County SOP-9-95 guidelines are considered toxic or hazardous and are not to be discharged to the ground surface, sanitary systems, storm drains, or any other leaching system. Please be advised that the discharge of any liquid from an industrial process without having first obtained a SPDES permit for that discharge is a violation of the New York State Environmental Conservation Law and Article 12 of the Suffolk County Sanitary Code. These regulations were promulgated to protect the groundwater, the drinking water resource in Suffolk County.

Due to the elevated levels found, **YOU ARE DIRECTED** to have all contaminated solids/sludge and liquids pumped from all contaminated structures as indicated below, **including all structures connected to them not previously sampled**. Please be advised that the remediation activity can only be accomplished by a **licensed industrial waste transporter**. The New York State Department of Environmental Conservation can verify the permit status of an industrial waste transporter. NYSDEC can be reached at (518) 402-8792 or by e-mail at transport@dec.ny.gov.

Flowerfield Catering

<u>Impacted Structure(s):</u>	<u>Contaminant(s) Found:</u>	<u>Endpoint(s) for:</u>
Sanitary Systems GT1, GT2, ST1, ST2, ST3, CP4, CP10, CP11	VOCs	VOCs
CP1, CP2	VOCs, Heavy Metals	VOCs, Heavy Metals

over-

Flowerfield Industrial Campus

<u>Impacted Structure(s):</u>	<u>Contaminant(s) Found:</u>	<u>Endpoint(s) for:</u>
Storm Water Drywells SD-13, SD-17	SVOCs	SVOCs
Sanitary Systems 9ST, 9PLP, 9SLPC, 10ST, 12PLP, 13ST, 13PLP, 14ST	VOCs	VOCs
7ST, 11ST, 12ST, 12PLP1	VOCs, Heavy Metals	VOCs, Heavy Metals
11SLP	VOCs, SVOCs	VOCs, SVOCs

Additional Requirements:

- Soil sample analysis from SD19 and the final discharge location of the two white PVC pipes on the south side of Building 2.
- Permanently disconnect the interior sink influent sources from SD10, SD15 and SD18 at the industrial campus as this is in violation of Suffolk County Sanitary Code.

Following the extraction of the contaminated soils from the leaching structures, confirmatory endpoint sample collection will be required to prove the remediation satisfactory. If endpoint samples or the nature of the contaminants indicate that further environmental contamination may be present, additional remedial measures including, but not limited to, a ground water investigation and/or soil vapor intrusion investigation will be required by the Department.

Failure to comply with the directives set forth in this letter by January 26, 2018 will result in this matter being scheduled for a formal administrative hearing at which time the Department will be seeking the imposition of the maximum penalties of \$2000.00 per day for each and every violation of the Suffolk County Sanitary Code including, but not limited to, failure to comply with the directives set forth in this letter. Your immediate attention to this matter is, therefore, expected.

Scope of Work to be Performed:

- **Submit application and check for the remaining fee in the amount of \$550.00 made out to The Suffolk County Department of Health Services (SCDHS). *Fee covers Closure Review.***
- **Retain the services of a licensed industrial waste transporter and/or environmental consultant. *Contact the NYSDEC regarding the permitting status of the waste transporter and disposal facility.***
- **Provide a work plan describing the proposed remedial action.**
- **Contact the undersigned to schedule a remediation inspection/oversee additional requirements.**
- **Provide post-excavation end-point sample analyses for all impacted structures.**
- **Provide waste-disposal manifest(s) for all contaminated liquid and soil.**
- **Contact the United States Environmental Protection Agency at <http://www.epa.gov/safewater/uic> regarding their Underground Injection Control (UIC) program requirements.**

All field activities must be scheduled at mutually agreeable times with the Department. If you have any questions concerning these matters or to schedule an appointment, please contact the undersigned.

Sincerely,



Peter Priolo
Public Health Sanitarian
Bureau of Environmental Investigation and Remediation
(631) 854-2545
CC: T. Melia, PWGC; NYSDEC, USEPA



Edward Roe
Senior Public Health Sanitarian

(631) 854-2534

APPENDIX B

LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

Lab Number: L1802820
Client: P. W. Grosser
630 Johnson Avenue
Suite 7
Bohemia, NY 11716
ATTN: Thomas Melia
Phone: (631) 589-6353
Project Name: GCA1704
Project Number: GCA1704
Report Date: 02/01/18

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1704

Lab Number: L1802820

Project Number: GCA1704

Report Date: 02/01/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1802820-01	SD-20	SOIL	ST. JAMES, NY	01/25/18 09:50	01/25/18
L1802820-02	SD-19	SOIL	ST. JAMES, NY	01/25/18 10:15	01/25/18
L1802820-03	11SLP	SOIL	ST. JAMES, NY	01/25/18 11:11	01/25/18
L1802820-04	7ST	SOIL	ST. JAMES, NY	01/25/18 11:35	01/25/18
L1802820-05	12PLP1	SOIL	ST. JAMES, NY	01/25/18 11:50	01/25/18
L1802820-06	12ST	SOIL	ST. JAMES, NY	01/25/18 12:00	01/25/18
L1802820-07	11ST	SOIL	ST. JAMES, NY	01/25/18 14:30	01/25/18
L1802820-08	CP001	SOIL	ST. JAMES, NY	01/25/18 13:30	01/25/18
L1802820-09	CP002	SOIL	ST. JAMES, NY	01/25/18 13:40	01/25/18
L1802820-10	CP010	SOIL	ST. JAMES, NY	01/25/18 13:50	01/25/18



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1704**Lab Number:** L1802820**Project Number:** GCA1704**Report Date:** 02/01/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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: GCA1704

Lab Number: L1802820

Project Number: GCA1704

Report Date: 02/01/18

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.

Volatile Organics

L1802820-01 and -02: 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.

Total Metals

The WG1085576-3 MS recovery, performed on L1802820-01, is outside the acceptance criteria for arsenic (208%). A post digestion spike was performed and was within acceptance criteria.

The WG1085576-3 MS recoveries, performed on L1802820-01, are outside the acceptance criteria for cadmium (225%) and nickel (126%). A post digestion spike was performed and yielded unacceptable recoveries for cadmium (61%) and nickel (70%). This has been attributed to sample matrix.

The WG1085576-3 MS recoveries for chromium (49%), copper (0%) and lead (270%), performed on L1802820-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1085576-4 Laboratory Duplicate RPDs for chromium (46%) and copper (25%), performed on L1802820-01, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

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: 02/01/18



ORGANICS



VOLATILES



NYSCEF DOC NO: 48 Project Name: GCA1704

Lab Number: RECEIVED NYSCEF No: 06/14/2022 Page 1 of 28

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-01
 Client ID: SD-20
 Sample Location: ST. JAMES, NY
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 01/30/18 12:09
 Analyst: MV
 Percent Solids: 69%

Date Collected: 01/25/18 09:50
 Date Received: 01/25/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.41	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.39	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	3.6		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.45	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1
Trichloroethene	ND		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.26	1
1,4-Dichlorobenzene	1.9	J	ug/kg	6.0	0.22	1

NYSCEF DOC NO: 48 Project Name: GCA1704

Lab Number: RECEIVED NYSDOT 06/14/2022 Page 1 of 29

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-01
 Client ID: SD-20
 Sample Location: ST. JAMES, NY
 Sample Depth:

Date Collected: 01/25/18 09:50
 Date Received: 01/25/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	ND		ug/kg	2.4	0.42	1
o-Xylene	ND		ug/kg	2.4	0.41	1
Xylenes, Total	ND		ug/kg	2.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
Dibromomethane	ND		ug/kg	12	0.29	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.60	1
Acetone	110		ug/kg	12	2.8	1
2-Butanone	27		ug/kg	12	0.83	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
Bromochloromethane	ND		ug/kg	6.0	0.43	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.54	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.26	1
n-Butylbenzene	0.54	J	ug/kg	1.2	0.27	1
sec-Butylbenzene	0.83	J	ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.0	0.30	1
o-Chlorotoluene	ND		ug/kg	6.0	0.26	1
p-Chlorotoluene	ND		ug/kg	6.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.42	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	2.2		ug/kg	1.2	0.24	1
Naphthalene	1.7	J	ug/kg	6.0	0.16	1
n-Propylbenzene	0.44	J	ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.26	1
1,3,5-Trimethylbenzene	0.69	J	ug/kg	6.0	0.19	1
1,2,4-Trimethylbenzene	1.3	J	ug/kg	6.0	0.22	1
p-Diethylbenzene	ND		ug/kg	4.8	4.8	1
p-Ethyltoluene	0.59	J	ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	0.75	J	ug/kg	4.8	0.19	1

NYSCEF DOC NO. 48 Project Name: GCA1704

RECEIVED NYSCEF: 06/14/2022 Lab Number: L1802820 Page 1 of 30

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-01
Client ID: SD-20
Sample Location: ST. JAMES, NY
Sample Depth:

Date Collected: 01/25/18 09:50
Date Received: 01/25/18
Field Prep: Not Specified

Parameter Result Qualifier Units RL MDL Dilution Factor

Volatile Organics by GC/MS - Westborough Lab

Table with 4 columns: Surrogate, % Recovery, Qualifier, Acceptance Criteria. Rows include 1,2-Dichloroethane-d4, Toluene-d8, 4-Bromofluorobenzene, and Dibromofluoromethane.



Project Name: 48 GCA1704

Lab Number: L1802820

RECEIVED NYSOFF: 06/14/2022

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-02
 Client ID: SD-19
 Sample Location: ST. JAMES, NY
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 01/30/18 12:35
 Analyst: MV
 Percent Solids: 46%

Date Collected: 01/25/18 10:15
 Date Received: 01/25/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	21	3.5	1
1,1-Dichloroethane	ND		ug/kg	3.2	0.57	1
Chloroform	ND		ug/kg	3.2	0.78	1
Carbon tetrachloride	ND		ug/kg	2.1	0.72	1
1,2-Dichloropropane	ND		ug/kg	7.4	0.48	1
Dibromochloromethane	ND		ug/kg	2.1	0.37	1
1,1,2-Trichloroethane	ND		ug/kg	3.2	0.66	1
Tetrachloroethene	ND		ug/kg	2.1	0.64	1
Chlorobenzene	ND		ug/kg	2.1	0.73	1
Trichlorofluoromethane	ND		ug/kg	10	0.88	1
1,2-Dichloroethane	ND		ug/kg	2.1	0.52	1
1,1,1-Trichloroethane	ND		ug/kg	2.1	0.74	1
Bromodichloromethane	ND		ug/kg	2.1	0.65	1
trans-1,3-Dichloropropene	ND		ug/kg	2.1	0.44	1
cis-1,3-Dichloropropene	ND		ug/kg	2.1	0.49	1
1,1-Dichloropropene	ND		ug/kg	10	0.69	1
Bromoform	ND		ug/kg	8.4	0.50	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.1	0.63	1
Benzene	ND		ug/kg	2.1	0.41	1
Toluene	2.2	J	ug/kg	3.2	0.41	1
Ethylbenzene	0.49	J	ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	4.2	0.66	1
Chloroethane	ND		ug/kg	4.2	0.66	1
1,1-Dichloroethene	ND		ug/kg	2.1	0.78	1
trans-1,2-Dichloroethene	ND		ug/kg	3.2	0.51	1
Trichloroethene	ND		ug/kg	2.1	0.64	1
1,2-Dichlorobenzene	ND		ug/kg	10	0.38	1
1,3-Dichlorobenzene	ND		ug/kg	10	0.46	1
1,4-Dichlorobenzene	ND		ug/kg	10	0.38	1



Project Name: 48 GCA1704

Lab Number: RECEIVED NYSDOT 06/14/2022
Page 1 of 32

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-02
Client ID: SD-19
Sample Location: ST. JAMES, NY
Sample Depth:Date Collected: 01/25/18 10:15
Date Received: 01/25/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	4.2	0.32	1
p/m-Xylene	1.3	J	ug/kg	4.2	0.74	1
o-Xylene	2.2	J	ug/kg	4.2	0.71	1
Xylenes, Total	3.5	J	ug/kg	4.2	0.71	1
cis-1,2-Dichloroethene	ND		ug/kg	2.1	0.72	1
Dibromomethane	ND		ug/kg	21	0.50	1
Styrene	ND		ug/kg	4.2	0.84	1
Dichlorodifluoromethane	ND		ug/kg	21	1.0	1
Acetone	170		ug/kg	21	4.8	1
2-Butanone	70		ug/kg	21	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	21	0.51	1
1,2,3-Trichloropropane	ND		ug/kg	21	0.37	1
Bromochloromethane	ND		ug/kg	10	0.75	1
2,2-Dichloropropane	ND		ug/kg	10	0.95	1
1,2-Dibromoethane	ND		ug/kg	8.4	0.42	1
1,3-Dichloropropane	ND		ug/kg	10	0.38	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.1	0.67	1
Bromobenzene	ND		ug/kg	10	0.46	1
n-Butylbenzene	0.82	J	ug/kg	2.1	0.48	1
sec-Butylbenzene	ND		ug/kg	2.1	0.46	1
tert-Butylbenzene	ND		ug/kg	10	0.52	1
o-Chlorotoluene	ND		ug/kg	10	0.46	1
p-Chlorotoluene	ND		ug/kg	10	0.38	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	10	0.83	1
Hexachlorobutadiene	ND		ug/kg	10	0.73	1
Isopropylbenzene	ND		ug/kg	2.1	0.41	1
p-Isopropyltoluene	1.1	J	ug/kg	2.1	0.42	1
Naphthalene	1.6	J	ug/kg	10	0.29	1
n-Propylbenzene	0.64	J	ug/kg	2.1	0.45	1
1,2,3-Trichlorobenzene	ND		ug/kg	10	0.53	1
1,2,4-Trichlorobenzene	ND		ug/kg	10	0.45	1
1,3,5-Trimethylbenzene	0.53	J	ug/kg	10	0.34	1
1,2,4-Trimethylbenzene	0.79	J	ug/kg	10	0.39	1
p-Diethylbenzene	ND		ug/kg	8.4	8.4	1
p-Ethyltoluene	ND		ug/kg	8.4	0.49	1
1,2,4,5-Tetramethylbenzene	0.72	J	ug/kg	8.4	0.33	1



NYSCEF DOC NO. 48 Project Name: GCA1704

Lab Number: RECEIVED NYSCEF: 06/14/2022 Page 1 of 33

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-02
Client ID: SD-19
Sample Location: ST. JAMES, NY
Sample Depth:

Date Collected: 01/25/18 10:15
Date Received: 01/25/18
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	122		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	128		70-130
Dibromofluoromethane	109		70-130



Project Name: GCA1704

Lab Number: L1802820

Project Number: GCA1704

Report Date: 02/01/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 01/30/18 08:40
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1085079-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: GCA1704

Lab Number: L1802820

Project Number: GCA1704

Report Date: 02/01/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 01/30/18 08:40
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1085079-5					
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22

NYSCEF DOC. NO. 48

Project Name: GCA1704

Lab Number: L1802820

Project Number: GCA1704

Report Date: 02/01/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 01/30/18 08:40
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1085079-5					
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1802820
Report Date: 02/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1085079-3 WG1085079-4								
Methylene chloride	80		78		70-130	3		30
1,1-Dichloroethane	119		115		70-130	3		30
Chloroform	106		103		70-130	3		30
Carbon tetrachloride	108		104		70-130	4		30
1,2-Dichloropropane	116		116		70-130	0		30
Dibromochloromethane	106		104		70-130	2		30
1,1,2-Trichloroethane	105		104		70-130	1		30
Tetrachloroethene	99		96		70-130	3		30
Chlorobenzene	103		101		70-130	2		30
Trichlorofluoromethane	85		85		70-139	0		30
1,2-Dichloroethane	120		118		70-130	2		30
1,1,1-Trichloroethane	105		104		70-130	1		30
Bromodichloromethane	105		104		70-130	1		30
trans-1,3-Dichloropropene	115		113		70-130	2		30
cis-1,3-Dichloropropene	110		109		70-130	1		30
1,1-Dichloropropene	106		102		70-130	4		30
Bromoform	107		104		70-130	3		30
1,1,1,2-Tetrachloroethane	105		104		70-130	1		30
Benzene	99		97		70-130	2		30
Toluene	97		95		70-130	2		30
Ethylbenzene	102		100		70-130	2		30
Vinyl chloride	104		101		67-130	3		30
Chloroethane	86		77		50-151	11		30



Lab Control Sample Analysis
Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1802820
Report Date: 02/01/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1085079-3 WG1085079-4								
1,1-Dichloroethene	99		96		65-135	3		30
trans-1,2-Dichloroethene	99		95		70-130	4		30
Trichloroethene	100		98		70-130	2		30
1,2-Dichlorobenzene	96		95		70-130	1		30
1,3-Dichlorobenzene	98		97		70-130	1		30
1,4-Dichlorobenzene	98		98		70-130	0		30
Methyl tert butyl ether	96		96		66-130	0		30
p/m-Xylene	102		100		70-130	2		30
o-Xylene	107		105		70-130	2		30
cis-1,2-Dichloroethene	100		98		70-130	2		30
Dibromomethane	105		103		70-130	2		30
Styrene	101		99		70-130	2		30
Dichlorodifluoromethane	93		86		30-146	8		30
Acetone	159	Q	145	Q	54-140	9		30
2-Butanone	121		117		70-130	3		30
4-Methyl-2-pentanone	116		112		70-130	4		30
1,2,3-Trichloropropane	106		106		68-130	0		30
Bromochloromethane	106		104		70-130	2		30
2,2-Dichloropropane	116		112		70-130	4		30
1,2-Dibromoethane	99		99		70-130	0		30
1,3-Dichloropropane	108		106		69-130	2		30
1,1,1,2-Tetrachloroethane	104		103		70-130	1		30
Bromobenzene	99		97		70-130	2		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1802820
Report Date: 02/01/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1085079-3 WG1085079-4								
n-Butylbenzene	105		102		70-130	3		30
sec-Butylbenzene	104		101		70-130	3		30
tert-Butylbenzene	101		98		70-130	3		30
o-Chlorotoluene	109		106		70-130	3		30
p-Chlorotoluene	104		102		70-130	2		30
1,2-Dibromo-3-chloropropane	92		93		68-130	1		30
Hexachlorobutadiene	90		88		67-130	2		30
Isopropylbenzene	104		102		70-130	2		30
p-Isopropyltoluene	101		99		70-130	2		30
Naphthalene	98		98		70-130	0		30
n-Propylbenzene	104		102		70-130	2		30
1,2,3-Trichlorobenzene	99		100		70-130	1		30
1,2,4-Trichlorobenzene	99		98		70-130	1		30
1,3,5-Trimethylbenzene	104		102		70-130	2		30
1,2,4-Trimethylbenzene	103		101		70-130	2		30
Freon-113	108		104		50-139	4		30
p-Diethylbenzene	105		103		70-130	2		30
p-Ethyltoluene	108		105		70-130	3		30
1,2,4,5-Tetramethylbenzene	102		101		70-130	1		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1802820
Report Date: 02/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1085079-3 WG1085079-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		113		70-130
Toluene-d8	108		107		70-130
4-Bromofluorobenzene	108		109		70-130
Dibromofluoromethane	107		106		70-130



SEMIVOLATILES



NYSCEF DOC NO: 48 Project Name: GCA1704

Lab Number: L1802820

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Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-01
 Client ID: SD-20
 Sample Location: ST. JAMES, NY
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 01/29/18 16:27
 Analyst: RC
 Percent Solids: 69%

Date Collected: 01/25/18 09:50
 Date Received: 01/25/18
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 01/28/18 12:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	190	24.	1
Fluoranthene	190		ug/kg	140	27.	1
Benzo(a)anthracene	75	J	ug/kg	140	26.	1
Benzo(a)pyrene	89	J	ug/kg	190	57.	1
Benzo(b)fluoranthene	170		ug/kg	140	39.	1
Benzo(k)fluoranthene	49	J	ug/kg	140	37.	1
Chrysene	130	J	ug/kg	140	24.	1
Anthracene	ND		ug/kg	140	46.	1
Benzo(ghi)perylene	96	J	ug/kg	190	27.	1
Fluorene	ND		ug/kg	230	23.	1
Phenanthrene	91	J	ug/kg	140	28.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	27.	1
Indeno(1,2,3-cd)pyrene	93	J	ug/kg	190	32.	1
Pyrene	190		ug/kg	140	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	57		30-120
4-Terphenyl-d14	56		18-120



NYSCEF DOC NO: 48 Project Name: GCA1704

Lab Number: L1802820

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Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-02
 Client ID: SD-19
 Sample Location: ST. JAMES, NY
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 01/29/18 16:53
 Analyst: RC
 Percent Solids: 46%

Date Collected: 01/25/18 10:15
 Date Received: 01/25/18
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 01/28/18 12:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	290	37.	1
Fluoranthene	760		ug/kg	210	41.	1
Benzo(a)anthracene	330		ug/kg	210	40.	1
Benzo(a)pyrene	460		ug/kg	290	87.	1
Benzo(b)fluoranthene	830		ug/kg	210	60.	1
Benzo(k)fluoranthene	240		ug/kg	210	57.	1
Chrysene	560		ug/kg	210	37.	1
Anthracene	ND		ug/kg	210	70.	1
Benzo(ghi)perylene	400		ug/kg	290	42.	1
Fluorene	36	J	ug/kg	360	35.	1
Phenanthrene	240		ug/kg	210	44.	1
Dibenzo(a,h)anthracene	95	J	ug/kg	210	41.	1
Indeno(1,2,3-cd)pyrene	410		ug/kg	290	50.	1
Pyrene	690		ug/kg	210	36.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	78		18-120

NYSCEF DOC. NO. 48

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1802820
Report Date: 02/01/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8270D
 Analytical Date: 01/29/18 10:30
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 01/28/18 12:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1084531-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	98	19.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.

Tentatively Identified Compounds

Total TIC Compounds	178	J	ug/kg
Unknown Alkane	178	J	ug/kg

Project Name: GCA1704

Lab Number: L1802820

Project Number: GCA1704

Report Date: 02/01/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 01/29/18 10:30
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 01/28/18 12:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1084531-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	90		18-120



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1802820
Report Date: 02/01/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1084531-2 WG1084531-3								
Acenaphthene	86		80		31-137	7		50
Fluoranthene	90		85		40-140	6		50
Benzo(a)anthracene	88		82		40-140	7		50
Benzo(a)pyrene	89		83		40-140	7		50
Benzo(b)fluoranthene	91		85		40-140	7		50
Benzo(k)fluoranthene	90		84		40-140	7		50
Chrysene	89		82		40-140	8		50
Anthracene	90		84		40-140	7		50
Benzo(ghi)perylene	89		84		40-140	6		50
Fluorene	88		83		40-140	6		50
Phenanthrene	87		82		40-140	6		50
Dibenzo(a,h)anthracene	89		84		40-140	6		50
Indeno(1,2,3-cd)pyrene	89		82		40-140	8		50
Pyrene	90		84		35-142	7		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	80		81		25-120
Phenol-d6	87		84		10-120
Nitrobenzene-d5	88		88		23-120
2-Fluorobiphenyl	86		81		30-120
2,4,6-Tribromophenol	100		92		10-136
4-Terphenyl-d14	91		84		18-120



METALS



NYSCEF DOC. NO. 48

Project Name: GCA1704

Lab Number: L1802820

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-01

Date Collected: 01/25/18 09:50

Client ID: SD-20

Date Received: 01/25/18

Sample Location: ST. JAMES, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.8		mg/kg	0.559	0.116	1	01/31/18 20:24	02/01/18 10:21	EPA 3050B	1,6010C	LC
Barium, Total	165		mg/kg	0.559	0.097	1	01/31/18 20:24	02/01/18 10:21	EPA 3050B	1,6010C	LC
Beryllium, Total	0.106	J	mg/kg	0.280	0.018	1	01/31/18 20:24	02/01/18 10:21	EPA 3050B	1,6010C	LC
Cadmium, Total	19.5		mg/kg	0.559	0.055	1	01/31/18 20:24	02/01/18 10:21	EPA 3050B	1,6010C	LC
Chromium, Total	90.3		mg/kg	0.559	0.054	1	01/31/18 20:24	02/01/18 10:21	EPA 3050B	1,6010C	LC
Copper, Total	367		mg/kg	0.559	0.144	1	01/31/18 20:24	02/01/18 10:21	EPA 3050B	1,6010C	LC
Lead, Total	1240		mg/kg	2.80	0.150	1	01/31/18 20:24	02/01/18 10:21	EPA 3050B	1,6010C	LC
Mercury, Total	0.17		mg/kg	0.09	0.02	1	01/27/18 09:30	01/29/18 15:44	EPA 7471B	1,7471B	EA
Nickel, Total	68.6		mg/kg	1.40	0.135	1	01/31/18 20:24	02/01/18 10:21	EPA 3050B	1,6010C	LC
Silver, Total	0.475	J	mg/kg	0.559	0.158	1	01/31/18 20:24	02/01/18 10:21	EPA 3050B	1,6010C	LC



NYSCEF DOC. NO. 48

Project Name: GCA1704

Lab Number: L1802820-449

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-02
 Client ID: SD-19
 Sample Location: ST. JAMES, NY
 Sample Depth:
 Matrix: Soil
 Percent Solids: 46%

Date Collected: 01/25/18 10:15
 Date Received: 01/25/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.14		mg/kg	0.871	0.181	1	01/31/18 20:24	02/01/18 10:39	EPA 3050B	1,6010C	LC
Barium, Total	46.6		mg/kg	0.871	0.152	1	01/31/18 20:24	02/01/18 10:39	EPA 3050B	1,6010C	LC
Beryllium, Total	0.226	J	mg/kg	0.436	0.029	1	01/31/18 20:24	02/01/18 10:39	EPA 3050B	1,6010C	LC
Cadmium, Total	1.20		mg/kg	0.871	0.085	1	01/31/18 20:24	02/01/18 10:39	EPA 3050B	1,6010C	LC
Chromium, Total	23.4		mg/kg	0.871	0.084	1	01/31/18 20:24	02/01/18 10:39	EPA 3050B	1,6010C	LC
Copper, Total	152		mg/kg	0.871	0.225	1	01/31/18 20:24	02/01/18 10:39	EPA 3050B	1,6010C	LC
Lead, Total	66.5		mg/kg	4.36	0.233	1	01/31/18 20:24	02/01/18 10:39	EPA 3050B	1,6010C	LC
Mercury, Total	0.26		mg/kg	0.14	0.03	1	01/27/18 09:30	01/29/18 15:46	EPA 7471B	1,7471B	EA
Nickel, Total	10.7		mg/kg	2.18	0.211	1	01/31/18 20:24	02/01/18 10:39	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.871	0.246	1	01/31/18 20:24	02/01/18 10:39	EPA 3050B	1,6010C	LC



NYSCEF DOC. NO. 48

Project Name: GCA1704

Lab Number: L1802820-450

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-03
Client ID: 11SLP
Sample Location: ST. JAMES, NY
Sample Depth:
Matrix: Soil

Date Collected: 01/25/18 11:11
Date Received: 01/25/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/26/18 17:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	ND		mg/l	0.500	0.027	1	01/30/18 18:05	01/31/18 21:45	EPA 3015	1,6010C	AB
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NYSCEF DOC. NO. 48

Project Name: GCA1704

Lab Number: L1802820

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-04
 Client ID: 7ST
 Sample Location: ST. JAMES, NY
 Sample Depth:
 Matrix: Soil

Date Collected: 01/25/18 11:35
 Date Received: 01/25/18
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 01/26/18 17:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	ND		mg/l	0.500	0.027	1	01/30/18 18:05	01/31/18 21:58	EPA 3015	1,6010C	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	01/30/18 10:24	01/30/18 21:46	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	01/30/18 18:05	01/31/18 21:58	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	01/30/18 18:05	01/31/18 21:58	EPA 3015	1,6010C	AB



NYSCEF DOC. NO. 48

Project Name: GCA1704

Lab Number: L1802820-452

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-05
Client ID: 12PLP1
Sample Location: ST. JAMES, NY
Sample Depth:
Matrix: Soil

Date Collected: 01/25/18 11:50
Date Received: 01/25/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/26/18 17:48

Table with 12 columns: Parameter, Result, Qualifier, Units, RL, MDL, Dilution Factor, Date Prepared, Date Analyzed, Prep Method, Analytical Method, Analyst. Includes sub-header 'TCLP Metals by EPA 1311 - Mansfield Lab' and rows for Cadmium, Chromium, Lead, and Mercury.



NYSCEF DOC. NO. 48

Project Name: GCA1704

Lab Number: L1802820

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-06
Client ID: 12ST
Sample Location: ST. JAMES, NY
Sample Depth:
Matrix: Soil

Date Collected: 01/25/18 12:00
Date Received: 01/25/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/26/18 17:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Chromium, TCLP	ND		mg/l	0.200	0.021	1	01/30/18 18:05	01/31/18 22:11	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	01/30/18 18:05	01/31/18 22:11	EPA 3015	1,6010C	AB



NYSCEF DOC. NO. 48

Project Name: GCA1704

Lab Number: L1802820

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-07
Client ID: 11ST
Sample Location: ST. JAMES, NY
Sample Depth:
Matrix: Soil

Date Collected: 01/25/18 14:30
Date Received: 01/25/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/26/18 17:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	ND		mg/l	0.500	0.027	1	01/30/18 18:05	01/31/18 22:15	EPA 3015	1,6010C	AB
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NYSCEF DOC. NO. 48

Project Name: GCA1704

Lab Number: L1802820

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-08
 Client ID: CP001
 Sample Location: ST. JAMES, NY
 Sample Depth:
 Matrix: Soil

Date Collected: 01/25/18 13:30
 Date Received: 01/25/18
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 01/26/18 17:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.500	0.027	1	01/30/18 18:05	01/31/18 22:19	EPA 3015	1,6010C	AB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	01/30/18 18:05	01/31/18 22:19	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	01/30/18 18:05	01/31/18 22:19	EPA 3015	1,6010C	AB



NYSCEF DOC. NO. 48

Project Name: GCA1704

Lab Number: L1802820-456

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-09
 Client ID: CP002
 Sample Location: ST. JAMES, NY
 Sample Depth:
 Matrix: Soil

Date Collected: 01/25/18 13:40
 Date Received: 01/25/18
 Field Prep: Not Specified
 TCLP/SPLP Ext. Date: 01/26/18 17:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Chromium, TCLP	ND		mg/l	0.200	0.021	1	01/30/18 18:05	01/31/18 22:23	EPA 3015	1,6010C	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	01/30/18 18:05	01/31/18 22:23	EPA 3015	1,6010C	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	01/30/18 18:05	01/31/18 22:23	EPA 3015	1,6010C	AB



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1704

Lab Number: L1802820-457

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-10
Client ID: CP010
Sample Location: ST. JAMES, NY
Sample Depth:
Matrix: Soil

Date Collected: 01/25/18 13:50
Date Received: 01/25/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/26/18 17:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.500	0.027	1	01/30/18 18:05	01/31/18 22:28	EPA 3015	1,6010C	AB



NYSCEF DOC. NO. 48
Project Name: GCA1704

RECEIVED NYSCEF: 06/14/2022
 Page 12 of 20
Lab Number: P1802820

Project Number: GCA1704

Report Date: 02/01/18

**Method Blank Analysis
 Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1084341-1									
Mercury, Total	ND	mg/kg	0.08	0.02	1	01/27/18 09:30	01/29/18 14:54	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 04-05 Batch: WG1084999-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0003	1	01/30/18 10:24	01/30/18 21:24	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A
 TCLP/SPLP Extraction Date: 01/26/18 17:48

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 03-10 Batch: WG1085163-1									
Cadmium, TCLP	ND	mg/l	0.100	0.010	1	01/30/18 18:05	01/31/18 21:06	1,6010C	AB
Chromium, TCLP	ND	mg/l	0.200	0.021	1	01/30/18 18:05	01/31/18 21:06	1,6010C	AB
Lead, TCLP	ND	mg/l	0.500	0.027	1	01/30/18 18:05	01/31/18 21:06	1,6010C	AB
Selenium, TCLP	ND	mg/l	0.500	0.035	1	01/30/18 18:05	01/31/18 21:06	1,6010C	AB
Silver, TCLP	ND	mg/l	0.100	0.028	1	01/30/18 18:05	01/31/18 21:06	1,6010C	AB

Prep Information

Digestion Method: EPA 3015
 TCLP/SPLP Extraction Date: 01/26/18 17:48

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1085576-1									
Arsenic, Total	ND	mg/kg	0.400	0.083	1	01/31/18 20:24	02/01/18 10:11	1,6010C	LC
Barium, Total	ND	mg/kg	0.400	0.070	1	01/31/18 20:24	02/01/18 10:11	1,6010C	LC



NYSCEF DOC. NO. 48
Project Name: GCA1704

RECEIVED NYSCEF: 06/14/2022
Lab Number: P1802820

Project Number: GCA1704

Report Date: 02/01/18

Method Blank Analysis Batch Quality Control

Beryllium, Total	ND	mg/kg	0.200	0.013	1	01/31/18 20:24	02/01/18 10:11	1,6010C	LC
Cadmium, Total	ND	mg/kg	0.400	0.039	1	01/31/18 20:24	02/01/18 10:11	1,6010C	LC
Chromium, Total	ND	mg/kg	0.400	0.038	1	01/31/18 20:24	02/01/18 10:11	1,6010C	LC
Copper, Total	ND	mg/kg	0.400	0.103	1	01/31/18 20:24	02/01/18 10:11	1,6010C	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	01/31/18 20:24	02/01/18 10:11	1,6010C	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	01/31/18 20:24	02/01/18 10:11	1,6010C	LC
Silver, Total	ND	mg/kg	0.400	0.113	1	01/31/18 20:24	02/01/18 10:11	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1802820
Report Date: 02/01/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1084341-2 SRM Lot Number: D098-540								
Mercury, Total	109		-		50-149	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04-05 Batch: WG1084999-2								
Mercury, TCLP	98		-		80-120	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03-10 Batch: WG1085163-2								
Cadmium, TCLP	94		-		75-125	-		20
Chromium, TCLP	93		-		75-125	-		20
Lead, TCLP	96		-		75-125	-		20
Selenium, TCLP	99		-		75-125	-		20
Silver, TCLP	90		-		75-125	-		20



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1802820
Report Date: 02/01/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1085576-2 SRM Lot Number: D098-540					
Arsenic, Total	99	-	83-117	-	
Barium, Total	95	-	82-118	-	
Beryllium, Total	96	-	83-117	-	
Cadmium, Total	91	-	82-117	-	
Chromium, Total	99	-	83-119	-	
Copper, Total	99	-	84-116	-	
Lead, Total	94	-	82-117	-	
Nickel, Total	93	-	82-117	-	
Silver, Total	100	-	80-120	-	



**Matrix Spike Analysis
 Batch Quality Control**

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1802820
Report Date: 02/01/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1084341-3 WG1084341-4 QC Sample: L1800001-124 Client ID: MS Sample											
Mercury, Total	0.10	0.126	0.20	79	Q	ND	0	Q	80-120	NC	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04-05 QC Batch ID: WG1084999-3 QC Sample: L1802710-01 Client ID: MS Sample											
Mercury, TCLP	ND	0.025	0.0247	99		-	-		80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03-10 QC Batch ID: WG1085163-3 QC Sample: L1802760-01 Client ID: MS Sample											
Cadmium, TCLP	ND	0.51	0.473	93		-	-		75-125	-	20
Chromium, TCLP	ND	2	1.85	92		-	-		75-125	-	20
Lead, TCLP	0.276J	5.1	5.09	100		-	-		75-125	-	20
Selenium, TCLP	ND	1.2	1.20	100		-	-		75-125	-	20
Silver, TCLP	ND	0.5	0.447	89		-	-		75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1085576-3 QC Sample: L1802820-01 Client ID: SD-20											
Arsenic, Total	10.8	13.1	38.0	208	Q	-	-		75-125	-	20
Barium, Total	165.	218	395	106		-	-		75-125	-	20
Beryllium, Total	0.106J	5.45	4.89	90		-	-		75-125	-	20
Cadmium, Total	19.5	5.56	32.0	225	Q	-	-		75-125	-	20
Chromium, Total	90.3	21.8	101	49	Q	-	-		75-125	-	20
Copper, Total	367.	27.2	345	0	Q	-	-		75-125	-	20
Lead, Total	1240	55.6	1390	270	Q	-	-		75-125	-	20
Nickel, Total	68.6	54.5	137	126	Q	-	-		75-125	-	20
Silver, Total	0.475J	32.7	32.3	99		-	-		75-125	-	20



Lab Duplicate Analysis
Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1802820
Report Date: 02/01/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04-05 QC Batch ID: WG1084999-4 QC Sample: L1802710-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03-10 QC Batch ID: WG1085163-4 QC Sample: L1802760-01 Client ID: DUP Sample						
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.276J	0.274J	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1085576-4 QC Sample: L1802820-01 Client ID: SD-20						
Arsenic, Total	10.8	12.6	mg/kg	15		20
Barium, Total	165.	152	mg/kg	8		20
Beryllium, Total	0.106J	0.114J	mg/kg	NC		20
Cadmium, Total	19.5	16.8	mg/kg	15		20
Chromium, Total	90.3	56.7	mg/kg	46	Q	20
Copper, Total	367.	286	mg/kg	25	Q	20
Lead, Total	1240	1110	mg/kg	11		20
Nickel, Total	68.6	73.9	mg/kg	7		20
Silver, Total	0.475J	0.409J	mg/kg	NC		20



**INORGANICS
&
MISCELLANEOUS**



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1704

Lab Number: L1802820

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-01
Client ID: SD-20
Sample Location: ST. JAMES, NY
Sample Depth:
Matrix: Soil

Date Collected: 01/25/18 09:50
Date Received: 01/25/18
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	69.3		%	0.100	NA	1	-	01/26/18 14:54	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1704

Lab Number: L1802820

Project Number: GCA1704

Report Date: 02/01/18

SAMPLE RESULTS

Lab ID: L1802820-02
Client ID: SD-19
Sample Location: ST. JAMES, NY
Sample Depth:
Matrix: Soil

Date Collected: 01/25/18 10:15
Date Received: 01/25/18
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	45.7		%	0.100	NA	1	-	01/26/18 14:54	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1802820
Report Date: 02/01/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1084214-1 QC Sample: L1802760-01 Client ID: DUP Sample						
Solids, Total	62.0	62.0	%	0		20



NYSCEF DOC NO: 48 **Project Name:** GCA1704

Lab Number: 1802820 RECEIVED NYSCEF: 06/14/2022 Page 1 of 468

Project Number: GCA1704

Report Date: 02/01/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1802820-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.1	Y	Absent		NYSUFFOLK-8260(14)
L1802820-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L1802820-01C	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TS(7),NYSUFFOLK-8270(14)
L1802820-01X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		NYSUFFOLK-8260(14)
L1802820-01Y	Vial Water preserved split	A	NA		2.1	Y	Absent	29-JAN-18 03:34	NYSUFFOLK-8260(14)
L1802820-01Z	Vial Water preserved split	A	NA		2.1	Y	Absent	29-JAN-18 03:34	NYSUFFOLK-8260(14)
L1802820-02A	Vial Large Septa unpreserved (4oz)	A	NA		2.1	Y	Absent		NYSUFFOLK-8260(14)
L1802820-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),HG-T(28),CD-TI(180)
L1802820-02C	Glass 120ml/4oz unpreserved	A	NA		2.1	Y	Absent		TS(7),NYSUFFOLK-8270(14)
L1802820-02X	Vial MeOH preserved split	A	NA		2.1	Y	Absent		NYSUFFOLK-8260(14)
L1802820-02Y	Vial Water preserved split	A	NA		2.1	Y	Absent	29-JAN-18 03:34	NYSUFFOLK-8260(14)
L1802820-02Z	Vial Water preserved split	A	NA		2.1	Y	Absent	29-JAN-18 03:34	NYSUFFOLK-8260(14)
L1802820-03A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1802820-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		PB-CI(180)
L1802820-03X9	Tumble Vessel	A	NA		2.1	Y	Absent		-
L1802820-04A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1802820-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		HG-C(28),PB-CI(180),SE-CI(180),AG-CI(180)
L1802820-04X9	Tumble Vessel	A	NA		2.1	Y	Absent		-
L1802820-05A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1802820-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		CD-CI(180),HG-C(28),PB-CI(180),CR-CI(180)
L1802820-05X9	Tumble Vessel	A	NA		2.1	Y	Absent		-



NYSCEF DOC NO: 48
Project Name: GCA1704

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Project Number: GCA1704

Report Date: 02/01/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1802820-06A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1802820-06X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		PB-CI(180),CR-CI(180)
L1802820-06X9	Tumble Vessel	A	NA		2.1	Y	Absent		-
L1802820-07A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1802820-07X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		PB-CI(180)
L1802820-07X9	Tumble Vessel	A	NA		2.1	Y	Absent		-
L1802820-08A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1802820-08X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		PB-CI(180),SE-CI(180),AG-CI(180)
L1802820-08X9	Tumble Vessel	A	NA		2.1	Y	Absent		-
L1802820-09A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1802820-09X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		PB-CI(180),CR-CI(180),AG-CI(180)
L1802820-09X9	Tumble Vessel	A	NA		2.1	Y	Absent		-
L1802820-10A	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		-
L1802820-10X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.1	Y	Absent		PB-CI(180)
L1802820-10X9	Tumble Vessel	A	NA		2.1	Y	Absent		-

*Values in parentheses indicate holding time in days



Project Name: GCA1704

Lab Number:

Project Number: GCA1704

Report Date:

L1802820

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02/01/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers

Project Name: GCA1704**Lab Number:**

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Project Number: GCA1704**Report Date:** 02/01/18**Data Qualifiers**

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.
- 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: GCA1704

Lab Number: L1802820

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Project Number: GCA1704

Report Date: 02/01/18

REFERENCES

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

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.



NYSC **Alpha Analytical Inc.**

RECEIVED NYSC ID No: 17873
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Facility: **Company-wide**

Revision 11

Department: **Quality Assurance**

Published Date: 1/8/2018 4:15:49 PM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, 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; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

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

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

ALPHA
NEW YORK CHAIN OF CUSTODY
 Westborough, MA 01581
 8 William Dr.
 TEL: 508-898-9222
 FAX: 508-898-9100

Newfield, MA 02842
 180 Forbes Blvd.
 TEL: 508-655-0100
 FAX: 508-622-3228

Service Centers:
 Marston, NJ 07430: 28 Wilsey Rd., Suite 3
 Albany, NY 12265: 14 Wilbur Way
 Tonawanda, NY 14150: 275 Cooper Ave., Suite 105

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 of 3

Date Rec'd
 in Lab 1/25/18

ALPHA Job #
 L1802820

Client Information
 Client: PWG-C
 Address: 630 Johnson Ave.
 Baberula, NY 11216
 Phone: 631-581-6353
 Fax:
 Email: T.Melina@pwgcorp.com

Project Information
 Project Name: GCA 1704
 Project Location: Et. James, NY
 Project #
 (Use Project name as Project #)
 Project Manager: Thomas Melina
 ALPHAQuote #
 Turn-Around Time
 Standard Rush (only if pre-approved)
 Due Date:
 # of Days:

Delivery/Prep
 ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other
Regulatory Requirement
 NY TUGS NY Part 375
 AWG Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Bill - Information
 Same as Client Info
Client Site Information
 Please identify below location of applicable General Facilities:
 Disposal Facility:
 NJ NY
 Other

These samples have been previously analyzed by Alpha
 Other project specific requirements/comments:
 Please specify Metals or TAL:

ANALYSIS

(SCDH) VOCs	(SCDH) SVOCs	(SCDH) Metals							
X	X	X							

Sample Filtration
 Done
 Lab to do
Preservation
 Lab to do
 (Please Specify below)
Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS													
		Date	Time			(SCDH) VOCs	(SCDH) SVOCs	(SCDH) Metals											
02820-01	SD-20	1-25	950	S	NR	X	X	X											
-02	SD-19	↓	1015	S	NR	X	X	X											

Preservative Code:
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = NaOH
 G = NH₄SCN
 H = Na₂S₂O₈
 I/E = Zn Ac/NaOH
 O = Other

Container Code:
 P = Plastic
 W = Amber Glass
 V = Vial
 B = Glass
 B = Bacteria Cup
 C = Cuvet
 O = Other
 E = Erlenmeyer
 B = BOD Bottle

Westboro Certification No: MA955
 Marshfield Certification No: MAD15

Container Type
 Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
[Signature]	1-25-18 1600	[Signature]	1/25/18 1100
[Signature]	1/25/18 1030	[Signature]	1/25/18 2130

Please print clearly, legibly, and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved BY EXECUTING THIS COC. THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

ALPHA
 WESTBOROUGH, MA 01581
 8 WILLOW DR.
 TEL: 508-864-0000
 FAX: 508-864-1100

NEW YORK CHAIN OF CUSTODY
 MARSHFIELD, MA 02042
 320 FORTRESS BLVD
 TEL: 508-422-1000
 FAX: 508-422-1000

Service Centers
 Mahwah, NJ 07430: 35 Wilbury Rd, Suite 1
 Albany, NY 12205: 14 Walker Way
 Tonawanda, NY 14150: 273 Center Ave, Suite 105

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 of 3

Date Rec'd in Lab: 1/25/18

ALPHA Job #
 L1802820

Client Information
 Client: PWCC
 Address: 630 Johnson Ave St. 7
 Bldg. 111216
 Phone: 631-581-8353
 Fax:
 Email: T.McL...@pwcc.com

Project Information
 Project Name: 6CA1304
 Project Location: St. James, NY
 Project #: E
 (Use Project name as Project #)
 Project Manager: Thomas, M.D.
 ALPHA Quote #:
 Time-Your Time
 Standard Rush (only if pre-approved)
 Due Date:
 # of Days:

Deliverables
 ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other

Regulatory Requirement
 NY 7DGS NY Part 176
 AWD Standards NY CP-57
 NY Resemint Code Other
 NY Unsanitary Code
 NYC Sewer Discharge

Chain of Custody
 Same as Client Info
 # of Samples:

Disposal Site Information
 Please identify name/location of responsible disposal facility:
 Disposal Facility:
 NJ NY
 Other:

These samples have been previously analyzed by Alpha
 Other project specific requirements/comments:
 Please specify Metals or TAL:

ANALYSIS

TCLP Lead	TCLP Mercury	TCLP Selenium	TCLP Silver	TCLP Cadmium	TCLP Chromium
X					
X	X	X	X		
X	X			X	X
X					X
X					

Sample Filtration
 Done
 Lab to do
 Lab to do
 (Please Specify below)
 Sample Specific Comments:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TCLP Lead	TCLP Mercury	TCLP Selenium	TCLP Silver	TCLP Cadmium	TCLP Chromium
		Date	Time								
02820-03	115LF	1-25	11:11	S	N/R	X					
-04	7ST		12:00			X	X	X	X		
-05	12PLP1		11:50			X	X			X	X
-06	125J		12:00			X					X
-07	115T		14:30			X					

Preservative Code
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = H₂O₂
 G = NaHSO₄
 H = Na₂S₂O₈
 J/E = 2% As₂W₂O₈
 O = Other

Container Code
 P = Plastic
 A = Amber Glass
 V = Vial
 H = Glass
 B = Washable Cap
 Q = Quik
 O = Other
 E = Encaps
 D = RC2 Bottle

Westboro Certification No: MA935
 Marshfield Certification No: MA015

Container Type:
 Preservative:

Relinquished By	Date/Time	Received By	Date/Time
N/A	1-25 14:00	N/A	1/25/18 10:00
N/A	1/25/18 12:00	N/A	1/25/18 12:00
N/A	1/25/18 12:00	N/A	1/25/18 22:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS (SEE REVERSE SIDE)



ANALYTICAL REPORT

Lab Number: L1806744
Client: P. W. Grosser
630 Johnson Avenue
Suite 7
Bohemia, NY 11716
ATTN: Thomas Melia
Phone: (631) 589-6353
Project Name: GCA1704
Project Number: GCA1704
Report Date: 03/06/18

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1704

Lab Number: L1806744

Project Number: GCA1704

Report Date: 03/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1806744-01	EP-9SLPC	SOIL	FLOWERFIELD INDUSTRIAL, ST. JAMES	02/27/18 12:15	02/27/18
L1806744-02	EP-9PLP	SOIL	FLOWERFIELD INDUSTRIAL, ST. JAMES	02/27/18 12:25	02/27/18
L1806744-03	EP-12PLP1 (MH-1)	SOIL	FLOWERFIELD INDUSTRIAL, ST. JAMES	02/27/18 13:15	02/27/18



Project Name: GCA1704

Lab Number: L1806744

Project Number: GCA1704

Report Date: 03/06/18

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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.



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1704

Lab Number: L1806744

Project Number: GCA1704

Report Date: 03/06/18

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.

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.

Total Metals

The WG1093364-3 MS recovery, performed on L1806744-03, is outside the acceptance criteria for mercury (138%). A post digestion spike was performed and was within acceptance criteria.

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:

Melissa Cripps Melissa Cripps

Title: Technical Director/Representative

Date: 03/06/18



ORGANICS



VOLATILES



NYSCEF DOC NO: 48 Project Name: GCA1704

Lab Number: L1806744 RECEIVED NYSCEF: 06/14/2022 Page 1 of 483

Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-01
 Client ID: EP-9SLPC
 Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/01/18 14:26
 Analyst: NLK
 Percent Solids: 93%

Date Collected: 02/27/18 12:15
 Date Received: 02/27/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.28	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.0	0.32	1
Chlorobenzene	0.47	J	ug/kg	1.0	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.37	1
Bromodichloromethane	ND		ug/kg	1.0	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.3	0.35	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.32	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	6.9		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1
Trichloroethene	ND		ug/kg	1.0	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.3	0.23	1
1,4-Dichlorobenzene	0.80	J	ug/kg	5.3	0.19	1

NYSCEF DOC NO: 48 Project Name: GCA1704

RECEIVED NYSCEF: 06/14/2022 Lab Number: L1806744 Page 1-1484

Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-01

Date Collected: 02/27/18 12:15

Client ID: EP-9SLPC

Date Received: 02/27/18

Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.37	1
o-Xylene	ND		ug/kg	2.1	0.36	1
Xylenes, Total	ND		ug/kg	2.1	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.36	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.53	1
Acetone	11		ug/kg	10	2.4	1
2-Butanone	ND		ug/kg	10	0.73	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.19	1
Bromochloromethane	ND		ug/kg	5.3	0.38	1
2,2-Dichloropropane	ND		ug/kg	5.3	0.48	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.34	1
Bromobenzene	ND		ug/kg	5.3	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.23	1
tert-Butylbenzene	ND		ug/kg	5.3	0.26	1
o-Chlorotoluene	ND		ug/kg	5.3	0.23	1
p-Chlorotoluene	ND		ug/kg	5.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.37	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	0.50	J	ug/kg	1.0	0.21	1
Naphthalene	ND		ug/kg	5.3	0.15	1
n-Propylbenzene	ND		ug/kg	1.0	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.3	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.3	0.20	1
Freon-113	ND		ug/kg	21	0.54	1
p-Diethylbenzene	ND		ug/kg	4.2	4.2	1
p-Ethyltoluene	ND		ug/kg	4.2	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.16	1

NYSCEF DOC NO: 48 Project Name: GCA1704

RECEIVED NYSCEF: 06/14/2022 Lab Number: L1806744 Page 1-1485

Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-01

Date Collected: 02/27/18 12:15

Client ID: EP-9SLPC

Date Received: 02/27/18

Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	94		70-130



NYSCEF DOC NO: 48 Project Name: GCA1704

Lab Number: L1806744

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Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-02
 Client ID: EP-9PLP
 Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/01/18 14:53
 Analyst: NLK
 Percent Solids: 81%

Date Collected: 02/27/18 12:25
 Date Received: 02/27/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	9.3	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.93	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.21	1
Dibromochloromethane	ND		ug/kg	0.93	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.93	0.28	1
Chlorobenzene	0.36	J	ug/kg	0.93	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.39	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.93	0.33	1
Bromodichloromethane	ND		ug/kg	0.93	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.93	0.22	1
1,1-Dichloropropene	ND		ug/kg	4.7	0.31	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.93	0.28	1
Benzene	ND		ug/kg	0.93	0.18	1
Toluene	0.90	J	ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.93	0.16	1
Vinyl chloride	ND		ug/kg	1.9	0.29	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.93	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1
Trichloroethene	ND		ug/kg	0.93	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.7	0.20	1
1,4-Dichlorobenzene	0.50	J	ug/kg	4.7	0.17	1



Project Name: 48 GCA1704

Lab Number: RECEIVED NYSDOT: 06/14/2022
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Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-02

Date Collected: 02/27/18 12:25

Client ID: EP-9PLP

Date Received: 02/27/18

Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.9	0.14	1
p/m-Xylene	ND		ug/kg	1.9	0.33	1
o-Xylene	ND		ug/kg	1.9	0.32	1
Xylenes, Total	ND		ug/kg	1.9	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.32	1
Dibromomethane	ND		ug/kg	9.3	0.22	1
Styrene	ND		ug/kg	1.9	0.37	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.47	1
Acetone	250		ug/kg	9.3	2.1	1
2-Butanone	ND		ug/kg	9.3	0.64	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.3	0.16	1
Bromochloromethane	ND		ug/kg	4.7	0.33	1
2,2-Dichloropropane	ND		ug/kg	4.7	0.42	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.7	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.93	0.30	1
Bromobenzene	ND		ug/kg	4.7	0.20	1
n-Butylbenzene	ND		ug/kg	0.93	0.21	1
sec-Butylbenzene	ND		ug/kg	0.93	0.20	1
tert-Butylbenzene	ND		ug/kg	4.7	0.23	1
o-Chlorotoluene	ND		ug/kg	4.7	0.21	1
p-Chlorotoluene	ND		ug/kg	4.7	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	0.37	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.32	1
Isopropylbenzene	ND		ug/kg	0.93	0.18	1
p-Isopropyltoluene	0.48	J	ug/kg	0.93	0.19	1
Naphthalene	ND		ug/kg	4.7	0.13	1
n-Propylbenzene	ND		ug/kg	0.93	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.7	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.7	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.7	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.7	0.17	1
Freon-113	ND		ug/kg	19	0.48	1
p-Diethylbenzene	ND		ug/kg	3.7	3.7	1
p-Ethyltoluene	ND		ug/kg	3.7	0.22	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.7	0.14	1



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Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-02

Date Collected: 02/27/18 12:25

Client ID: EP-9PLP

Date Received: 02/27/18

Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES

Field Prep: Not Specified

Sample Depth:

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	104		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	93		70-130



Project Name: 48 GCA1704

Lab Number: L1806744

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Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-03
 Client ID: EP-12PLP1 (MH-1)
 Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/01/18 15:19
 Analyst: NLK
 Percent Solids: 79%

Date Collected: 02/27/18 13:15
 Date Received: 02/27/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.41	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	11		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.39	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	0.76	J	ug/kg	1.2	0.23	1
Toluene	0.53	J	ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1
Trichloroethene	ND		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	0.72	J	ug/kg	6.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.26	1
1,4-Dichlorobenzene	2.3	J	ug/kg	6.0	0.22	1



Project Name: 48 GCA1704

Lab Number: RECEIVED NYSDOT 06/14/2022 Page 1 of 40

Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-03
 Client ID: EP-12PLP1 (MH-1)
 Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES
 Sample Depth:

Date Collected: 02/27/18 13:15
 Date Received: 02/27/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	1.1	J	ug/kg	2.4	0.42	1
o-Xylene	0.72	J	ug/kg	2.4	0.40	1
Xylenes, Total	1.8	J	ug/kg	2.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
Dibromomethane	ND		ug/kg	12	0.28	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.60	1
Acetone	22		ug/kg	12	2.7	1
2-Butanone	ND		ug/kg	12	0.82	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
Bromochloromethane	ND		ug/kg	6.0	0.43	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.54	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.26	1
n-Butylbenzene	1.2		ug/kg	1.2	0.27	1
sec-Butylbenzene	0.75	J	ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.0	0.30	1
o-Chlorotoluene	ND		ug/kg	6.0	0.26	1
p-Chlorotoluene	ND		ug/kg	6.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.47	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.42	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	1.5		ug/kg	1.2	0.24	1
Naphthalene	2.1	J	ug/kg	6.0	0.16	1
n-Propylbenzene	0.69	J	ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.26	1
1,3,5-Trimethylbenzene	2.5	J	ug/kg	6.0	0.19	1
1,2,4-Trimethylbenzene	6.0		ug/kg	6.0	0.22	1
Freon-113	ND		ug/kg	24	0.61	1
p-Diethylbenzene	5.8		ug/kg	4.8	4.8	1
p-Ethyltoluene	3.3	J	ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	1.4	J	ug/kg	4.8	0.19	1



NYSCEF DOC NO. 48 Project Name: GCA1704

RECEIVED NYSCEF: 06/14/2022 Lab Number: L1806744 Page 1-1491

Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-03
Client ID: EP-12PLP1 (MH-1)
Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES
Sample Depth:

Date Collected: 02/27/18 13:15
Date Received: 02/27/18
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	102		70-130
Dibromofluoromethane	96		70-130



Project Name: GCA1704

Lab Number: L1806744

Project Number: GCA1704

Report Date: 03/06/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 03/01/18 09:10
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1093379-10					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	0.38	J	ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: GCA1704

Lab Number: L1806744

Project Number: GCA1704

Report Date: 03/06/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 03/01/18 09:10
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1093379-10					
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22

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Project Name: GCA1704

Lab Number: L1806744

Project Number: GCA1704

Report Date: 03/06/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 03/01/18 09:10
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG1093379-10					
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1806744
Report Date: 03/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1093379-8 WG1093379-9								
Methylene chloride	94		89		70-130	5		30
1,1-Dichloroethane	93		93		70-130	0		30
Chloroform	92		92		70-130	0		30
Carbon tetrachloride	95		93		70-130	2		30
1,2-Dichloropropane	91		90		70-130	1		30
Dibromochloromethane	92		88		70-130	4		30
1,1,2-Trichloroethane	104		97		70-130	7		30
Tetrachloroethene	94		92		70-130	2		30
Chlorobenzene	95		94		70-130	1		30
Trichlorofluoromethane	104		101		70-139	3		30
1,2-Dichloroethane	97		93		70-130	4		30
1,1,1-Trichloroethane	96		92		70-130	4		30
Bromodichloromethane	96		94		70-130	2		30
trans-1,3-Dichloropropene	90		87		70-130	3		30
cis-1,3-Dichloropropene	94		92		70-130	2		30
1,1-Dichloropropene	89		87		70-130	2		30
Bromoform	82		79		70-130	4		30
1,1,2,2-Tetrachloroethane	108		103		70-130	5		30
Benzene	89		88		70-130	1		30
Toluene	93		93		70-130	0		30
Ethylbenzene	95		94		70-130	1		30
Vinyl chloride	90		88		67-130	2		30
Chloroethane	86		84		50-151	2		30



Lab Control Sample Analysis
Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1806744
Report Date: 03/06/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1093379-8 WG1093379-9								
1,1-Dichloroethene	90		92		65-135	2		30
trans-1,2-Dichloroethene	89		90		70-130	1		30
Trichloroethene	90		90		70-130	0		30
1,2-Dichlorobenzene	101		99		70-130	2		30
1,3-Dichlorobenzene	99		97		70-130	2		30
1,4-Dichlorobenzene	99		95		70-130	4		30
Methyl tert butyl ether	90		90		66-130	0		30
p/m-Xylene	100		98		70-130	2		30
o-Xylene	98		97		70-130	1		30
cis-1,2-Dichloroethene	89		89		70-130	0		30
Dibromomethane	99		95		70-130	4		30
Styrene	100		98		70-130	2		30
Dichlorodifluoromethane	95		92		30-146	3		30
Acetone	92		81		54-140	13		30
2-Butanone	76		73		70-130	4		30
4-Methyl-2-pentanone	84		81		70-130	4		30
1,2,3-Trichloropropane	102		100		68-130	2		30
Bromochloromethane	97		94		70-130	3		30
2,2-Dichloropropane	97		97		70-130	0		30
1,2-Dibromoethane	100		94		70-130	6		30
1,3-Dichloropropane	99		97		69-130	2		30
1,1,1,2-Tetrachloroethane	99		93		70-130	6		30
Bromobenzene	96		93		70-130	3		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1806744
Report Date: 03/06/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1093379-8 WG1093379-9								
n-Butylbenzene	102		99		70-130	3		30
sec-Butylbenzene	99		97		70-130	2		30
tert-Butylbenzene	96		96		70-130	0		30
o-Chlorotoluene	99		97		70-130	2		30
p-Chlorotoluene	98		97		70-130	1		30
1,2-Dibromo-3-chloropropane	91		87		68-130	4		30
Hexachlorobutadiene	91		91		67-130	0		30
Isopropylbenzene	94		94		70-130	0		30
p-Isopropyltoluene	100		96		70-130	4		30
Naphthalene	101		98		70-130	3		30
n-Propylbenzene	98		95		70-130	3		30
1,2,3-Trichlorobenzene	104		101		70-130	3		30
1,2,4-Trichlorobenzene	102		95		70-130	7		30
1,3,5-Trimethylbenzene	100		98		70-130	2		30
1,2,4-Trimethylbenzene	101		99		70-130	2		30
Freon-113	96		95		50-139	1		30
p-Diethylbenzene	100		97		70-130	3		30
p-Ethyltoluene	99		95		70-130	4		30
1,2,4,5-Tetramethylbenzene	103		99		70-130	4		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1806744
Report Date: 03/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG1093379-8 WG1093379-9

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	114		109		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	103		101		70-130
Dibromofluoromethane	106		105		70-130



METALS



NYSCEF DOC. NO. 48

Project Name: GCA1704

Lab Number: L1806741500

RECEIVED NYSCEF: 06/14/2022

Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-03
 Client ID: EP-12PLP1 (MH-1)
 Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES
 Sample Depth:
 Matrix: Soil
 Percent Solids: 79%

Date Collected: 02/27/18 13:15
 Date Received: 02/27/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.01		mg/kg	0.497	0.103	1	03/01/18 05:30	03/01/18 15:30	EPA 3050B	1,6010C	JH
Barium, Total	12.6		mg/kg	0.497	0.086	1	03/01/18 05:30	03/01/18 15:30	EPA 3050B	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.248	0.016	1	03/01/18 05:30	03/01/18 15:30	EPA 3050B	1,6010C	JH
Cadmium, Total	0.080	J	mg/kg	0.497	0.049	1	03/01/18 05:30	03/01/18 15:30	EPA 3050B	1,6010C	JH
Chromium, Total	6.11		mg/kg	0.497	0.048	1	03/01/18 05:30	03/01/18 15:30	EPA 3050B	1,6010C	JH
Copper, Total	12.5		mg/kg	0.497	0.128	1	03/01/18 05:30	03/01/18 15:30	EPA 3050B	1,6010C	JH
Lead, Total	4.23		mg/kg	2.48	0.133	1	03/01/18 05:30	03/01/18 15:30	EPA 3050B	1,6010C	JH
Mercury, Total	0.02	J	mg/kg	0.08	0.02	1	03/01/18 06:30	03/01/18 12:47	EPA 7471B	1,7471B	MG
Nickel, Total	4.15		mg/kg	1.24	0.120	1	03/01/18 05:30	03/01/18 15:30	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.993	0.128	1	03/01/18 05:30	03/01/18 15:30	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.497	0.140	1	03/01/18 05:30	03/01/18 15:30	EPA 3050B	1,6010C	JH

NYSCEF DOC. NO. 48
Project Name: GCA1704

RECEIVED NYSCEF: 06/14/2022
Lab Number: P1806741

Project Number: GCA1704

Report Date: 03/06/18

**Method Blank Analysis
 Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03 Batch: WG1093358-1									
Arsenic, Total	ND	mg/kg	0.400	0.083	1	03/01/18 05:30	03/01/18 09:29	1,6010C	JH
Barium, Total	ND	mg/kg	0.400	0.070	1	03/01/18 05:30	03/01/18 09:29	1,6010C	JH
Beryllium, Total	ND	mg/kg	0.200	0.013	1	03/01/18 05:30	03/01/18 09:29	1,6010C	JH
Cadmium, Total	ND	mg/kg	0.400	0.039	1	03/01/18 05:30	03/01/18 09:29	1,6010C	JH
Chromium, Total	ND	mg/kg	0.400	0.038	1	03/01/18 05:30	03/01/18 09:29	1,6010C	JH
Copper, Total	ND	mg/kg	0.400	0.103	1	03/01/18 05:30	03/01/18 09:29	1,6010C	JH
Lead, Total	ND	mg/kg	2.00	0.107	1	03/01/18 05:30	03/01/18 09:29	1,6010C	JH
Nickel, Total	ND	mg/kg	1.00	0.097	1	03/01/18 05:30	03/01/18 09:29	1,6010C	JH
Selenium, Total	ND	mg/kg	0.800	0.103	1	03/01/18 05:30	03/01/18 09:29	1,6010C	JH
Silver, Total	ND	mg/kg	0.400	0.113	1	03/01/18 05:30	03/01/18 09:29	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 - Mansfield Lab for sample(s): 03 Batch: WG1093364-1									
Mercury, Total	ND	mg/kg	0.08	0.02	1	03/01/18 06:30	03/01/18 12:44	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1806744
Report Date: 03/06/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1093358-2 SRM Lot Number: D098-540								
Arsenic, Total	114		-		83-117	-		
Barium, Total	116		-		82-118	-		
Beryllium, Total	111		-		83-117	-		
Cadmium, Total	105		-		82-117	-		
Chromium, Total	111		-		83-119	-		
Copper, Total	101		-		84-116	-		
Lead, Total	101		-		82-117	-		
Nickel, Total	105		-		82-117	-		
Selenium, Total	108		-		78-121	-		
Silver, Total	102		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1093364-2 SRM Lot Number: D098-540								
Mercury, Total	109		-		50-149	-		



**Matrix Spike Analysis
 Batch Quality Control**

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1806744
Report Date: 03/06/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1093358-3 QC Sample: L1806934-01 Client ID: MS Sample												
Arsenic, Total	8.78	11.3	17.8	80		-	-		75-125	-		20
Barium, Total	78.5	188	200	64	Q	-	-		75-125	-		20
Beryllium, Total	0.307	4.71	4.06	80		-	-		75-125	-		20
Cadmium, Total	ND	4.81	3.67	76		-	-		75-125	-		20
Chromium, Total	12.7	18.8	26.4	73	Q	-	-		75-125	-		20
Copper, Total	10.6	23.6	32.9	95		-	-		75-125	-		20
Lead, Total	41.1	48.1	43.6	5	Q	-	-		75-125	-		20
Nickel, Total	8.29	47.1	40.6	68	Q	-	-		75-125	-		20
Selenium, Total	0.282J	11.3	9.41	83		-	-		75-125	-		20
Silver, Total	ND	28.3	26.6	94		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1093364-3 QC Sample: L1806744-03 Client ID: EP-12PLP1 (MH-1)												
Mercury, Total	0.02J	0.159	0.22	138	Q	-	-		80-120	-		20



Lab Duplicate Analysis
Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1806744
Report Date: 03/06/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1093358-4 QC Sample: L1806934-01 Client ID: DUP Sample						
Lead, Total	41.1	6.56	mg/kg	145	Q	20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1093364-4 QC Sample: L1806744-03 Client ID: EP-12PLP1 (MH-1)						
Mercury, Total	0.02J	0.02J	mg/kg	NC		20



**INORGANICS
&
MISCELLANEOUS**



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1704

Lab Number: L1806744

Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-01
Client ID: EP-9SLPC
Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 12:15
Date Received: 02/27/18
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	-	03/01/18 11:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1704

Lab Number: L1806744

Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-02
Client ID: EP-9PLP
Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 12:25
Date Received: 02/27/18
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	81.1		%	0.100	NA	1	-	03/01/18 11:58	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GCA1704

Lab Number: L1806744

Project Number: GCA1704

Report Date: 03/06/18

SAMPLE RESULTS

Lab ID: L1806744-03
Client ID: EP-12PLP1 (MH-1)
Sample Location: FLOWERFIELD INDUSTRIAL, ST. JAMES
Sample Depth:
Matrix: Soil

Date Collected: 02/27/18 13:15
Date Received: 02/27/18
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	78.9		%	0.100	NA	1	-	03/01/18 11:58	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: GCA1704
Project Number: GCA1704

Lab Number: L1806744
Report Date: 03/06/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1093513-1 QC Sample: L1806979-06 Client ID: DUP Sample						
Solids, Total	83.4	83.3	%	0		20



NYSCEF DOC NO: 48
Project Name: GCA1704

FILED BY: NYSCEF 06/14/2022
Lab Number: 195104
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Project Number: GCA1704

Report Date: 03/06/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
 A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1806744-01A	Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		NYSUFFOLK-8260(14),TS(7)
L1806744-01X	Vial MeOH preserved split	A	NA		2.4	Y	Absent		NYSUFFOLK-8260(14)
L1806744-01Y	Vial Water preserved split	A	NA		2.4	Y	Absent	28-FEB-18 20:17	NYSUFFOLK-8260(14)
L1806744-01Z	Vial Water preserved split	A	NA		2.4	Y	Absent	28-FEB-18 20:17	NYSUFFOLK-8260(14)
L1806744-02A	Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		NYSUFFOLK-8260(14),TS(7)
L1806744-02X	Vial MeOH preserved split	A	NA		2.4	Y	Absent		NYSUFFOLK-8260(14)
L1806744-02Y	Vial Water preserved split	A	NA		2.4	Y	Absent	28-FEB-18 20:17	NYSUFFOLK-8260(14)
L1806744-02Z	Vial Water preserved split	A	NA		2.4	Y	Absent	28-FEB-18 20:17	NYSUFFOLK-8260(14)
L1806744-03A	Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		NYSUFFOLK-8260(14)
L1806744-03B	Glass 60mL/2oz unpreserved	A	NA		2.4	Y	Absent		BE-TI(180),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)
L1806744-03X	Vial MeOH preserved split	A	NA		2.4	Y	Absent		NYSUFFOLK-8260(14)
L1806744-03Y	Vial Water preserved split	A	NA		2.4	Y	Absent	28-FEB-18 20:17	NYSUFFOLK-8260(14)
L1806744-03Z	Vial Water preserved split	A	NA		2.4	Y	Absent	28-FEB-18 20:17	NYSUFFOLK-8260(14)

*Values in parentheses indicate holding time in days



Project Name: GCA1704

Lab Number:

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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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers

Project Name: GCA1704

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Data Qualifiers

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.
- 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

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Report Date: 03/06/18

REFERENCES

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

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.



Facility: **Company-wide**

Revision 11

Department: **Quality Assurance**

Published Date: 1/8/2018 4:15:49 PM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, 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; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water



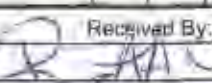




EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 Westborough, MA 01581 6 Webcup Dr. TEL: 508-865-0200 FAX: 508-865-0201		NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 120 Forbes Blvd. TEL: 508-822-0300 FAX: 508-822-0303		Service Centers Newark, NJ 07102: 38 Wilkes Rd. Suite 2 Albany, NY 12205: 14 Miller Way Tonawanda, NY 14150: 375 Cooper Ave. Suite 105		Page 1 of 1	Date Rec'd in Lab 2/27/18		ALPHA acc# L1806744																																																																																																																																																																																												
Project Information Project Name: GCA1704 Project Location: Flowerfield Industrial, St. James				Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (A File) <input checked="" type="checkbox"/> Other Results only				Billing Information <input checked="" type="checkbox"/> Same as Client Info. <input type="checkbox"/> File																																																																																																																																																																																													
Client Information Client: Tom Melia Address: 630 Johnson Ave Ste 7 Bohemia, NY 11716 Phone: (631) 589-6353 Fax: _____ Email: thomas.m@pugrossion.com				Project # _____ (Use Project name as Project #) <input checked="" type="checkbox"/>				Reliability Requirement <input type="checkbox"/> NY TDGS <input type="checkbox"/> NY Pam 375 <input type="checkbox"/> AWG Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other _____ <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Traceable Site Information Please identify system location of applicable remedial activities: Discard Facility: <input type="checkbox"/> #1 <input type="checkbox"/> #2 <input type="checkbox"/> Other _____																																																																																																																																																																																											
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID <small>— Use Only</small></th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">SC DHS VOCs</th> <th rowspan="2">SC DHS Metals</th> <th colspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>06744-01</td> <td>EP-9SLPC</td> <td>2/27/18</td> <td>1215</td> <td>S</td> <td>AE</td> <td>XXX</td> <td>XXX</td> <td></td> <td></td> </tr> <tr> <td>02</td> <td>EP-9PLP</td> <td>↓</td> <td>1225</td> <td>↓</td> <td>↓</td> <td>XXX</td> <td>XXX</td> <td></td> <td></td> </tr> <tr> <td>03</td> <td>EP-12PLP1(MH-1)</td> <td>↓</td> <td>1315</td> <td>↓</td> <td>↓</td> <td>XXX</td> <td>XXX</td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										ALPHA Lab ID <small>— Use Only</small>	Sample ID	Collection		Sample Matrix	Sampler's Initials	SC DHS VOCs	SC DHS Metals	Sample Specific Comments		Date	Time			06744-01	EP-9SLPC	2/27/18	1215	S	AE	XXX	XXX			02	EP-9PLP	↓	1225	↓	↓	XXX	XXX			03	EP-12PLP1(MH-1)	↓	1315	↓	↓	XXX	XXX																																																																																																																																																		
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Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MnOH G = NaHSO ₄ H = Na ₂ S ₂ O ₈ WE = 2% Ac/NsOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Borealis Cup C = Cule D = Other E = Enzyme D = BOD Bottle		Westboro: Certification No: MA935 Mendon: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																																																																																																																													
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ANALYTICAL REPORT

Lab Number:	L1807506
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Thomas Melia
Phone:	(631) 589-6353
Project Name:	GYRODYNE INDUSTRIAL
Project Number:	GCA1704
Report Date:	03/12/18

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), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

Report Date: 03/12/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1807506-01	EP-11SLP	SOIL	1 FLOWERFIELD, ST. JAMES	03/05/18 10:45	03/05/18
L1807506-02	EP-13ST	SOIL	1 FLOWERFIELD, ST. JAMES	03/05/18 11:25	03/05/18
L1807506-03	EP-13PLP	SOIL	1 FLOWERFIELD, ST. JAMES	03/05/18 11:40	03/05/18
L1807506-04	EP-12PLP	SOIL	1 FLOWERFIELD, ST. JAMES	03/05/18 12:05	03/05/18
L1807506-05	EP-SD13	SOIL	1 FLOWERFIELD, ST. JAMES	03/05/18 12:55	03/05/18
L1807506-06	EP-SD17	SOIL	1 FLOWERFIELD, ST. JAMES	03/05/18 13:05	03/05/18



Project Name: GYRODYNE INDUSTRIAL**Lab Number:** L1518
L1807506**Project Number:** GCA1704**Report Date:** 03/12/18**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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

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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.

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:

 Cristin Walker

Title: Technical Director/Representative

Date: 03/12/18



ORGANICS



VOLATILES



Project Name: 48 GYRODYNE INDUSTRIAL

Lab Number: L1807506

RECEIVED NYSOFF: 06/14/2022

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-01
 Client ID: EP-11SLP
 Sample Location: 1 FLOWERFIELD, ST. JAMES
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/09/18 11:37
 Analyst: MV
 Percent Solids: 84%

Date Collected: 03/05/18 10:45
 Date Received: 03/05/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	8.5	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.23	1
Chloroform	ND		ug/kg	1.3	0.31	1
Carbon tetrachloride	ND		ug/kg	0.85	0.29	1
1,2-Dichloropropane	ND		ug/kg	3.0	0.19	1
Dibromochloromethane	ND		ug/kg	0.85	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.26	1
Tetrachloroethene	ND		ug/kg	0.85	0.26	1
Chlorobenzene	0.41	J	ug/kg	0.85	0.29	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.35	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.85	0.30	1
Bromodichloromethane	ND		ug/kg	0.85	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.85	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.2	0.28	1
Bromoform	ND		ug/kg	3.4	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.85	0.25	1
Benzene	ND		ug/kg	0.85	0.16	1
Toluene	0.37	J	ug/kg	1.3	0.16	1
Ethylbenzene	ND		ug/kg	0.85	0.14	1
Vinyl chloride	ND		ug/kg	1.7	0.27	1
Chloroethane	ND		ug/kg	1.7	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.20	1
Trichloroethene	ND		ug/kg	0.85	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.18	1
1,4-Dichlorobenzene	0.42	J	ug/kg	4.2	0.15	1

Project Name: 48 GYRODYNE INDUSTRIAL

Lab Number: RECEIVED NYSOFF: 06/14/2022
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Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-01
 Client ID: EP-11SLP
 Sample Location: 1 FLOWERFIELD, ST. JAMES
 Sample Depth:

Date Collected: 03/05/18 10:45
 Date Received: 03/05/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.30	1
o-Xylene	ND		ug/kg	1.7	0.29	1
Xylenes, Total	ND		ug/kg	1.7	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.85	0.29	1
Dibromomethane	ND		ug/kg	8.5	0.20	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.42	1
Acetone	12		ug/kg	8.5	1.9	1
2-Butanone	2.6	J	ug/kg	8.5	0.58	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	0.21	1
1,2,3-Trichloropropane	ND		ug/kg	8.5	0.15	1
Bromochloromethane	ND		ug/kg	4.2	0.30	1
2,2-Dichloropropane	ND		ug/kg	4.2	0.38	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.2	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.85	0.27	1
Bromobenzene	ND		ug/kg	4.2	0.18	1
n-Butylbenzene	ND		ug/kg	0.85	0.19	1
sec-Butylbenzene	ND		ug/kg	0.85	0.18	1
tert-Butylbenzene	ND		ug/kg	4.2	0.21	1
o-Chlorotoluene	ND		ug/kg	4.2	0.19	1
p-Chlorotoluene	ND		ug/kg	4.2	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.34	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.29	1
Isopropylbenzene	ND		ug/kg	0.85	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.85	0.17	1
Naphthalene	ND		ug/kg	4.2	0.12	1
n-Propylbenzene	ND		ug/kg	0.85	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.16	1
p-Diethylbenzene	ND		ug/kg	3.4	3.4	1
p-Ethyltoluene	ND		ug/kg	3.4	0.20	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.4	0.13	1

Project Name: 48 GYRODYNE INDUSTRIAL

Lab Number: L1807506 RECEIVED NYSOFF: 06/14/2022 Page 1 of 24

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-01
Client ID: EP-11SLP
Sample Location: 1 FLOWERFIELD, ST. JAMES
Sample Depth:

Date Collected: 03/05/18 10:45
Date Received: 03/05/18
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	94		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130



Project Name: 48 GYRODYNE INDUSTRIAL

Lab Number: L1807506

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Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-02
 Client ID: EP-13ST
 Sample Location: 1 FLOWERFIELD, ST. JAMES
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/09/18 12:03
 Analyst: MV
 Percent Solids: 76%

Date Collected: 03/05/18 11:25
 Date Received: 03/05/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.44	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.39	1
Tetrachloroethene	ND		ug/kg	1.3	0.38	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.53	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.44	1
Bromodichloromethane	ND		ug/kg	1.3	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.29	1
1,1-Dichloropropene	ND		ug/kg	6.3	0.41	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.38	1
Benzene	ND		ug/kg	1.3	0.24	1
Toluene	4.9		ug/kg	1.9	0.25	1
Ethylbenzene	0.42	J	ug/kg	1.3	0.21	1
Vinyl chloride	ND		ug/kg	2.5	0.40	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.30	1
Trichloroethene	ND		ug/kg	1.3	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.28	1
1,4-Dichlorobenzene	0.24	J	ug/kg	6.3	0.23	1



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Lab Number: 1807506 RECEIVED NYSCEF: 06/14/2022 Page 11 of 26

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-02
 Client ID: EP-13ST
 Sample Location: 1 FLOWERFIELD, ST. JAMES
 Sample Depth:

Date Collected: 03/05/18 11:25
 Date Received: 03/05/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.44	1
o-Xylene	ND		ug/kg	2.5	0.43	1
Xylenes, Total	ND		ug/kg	2.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.43	1
Dibromomethane	ND		ug/kg	13	0.30	1
Styrene	ND		ug/kg	2.5	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.63	1
Acetone	54		ug/kg	13	2.9	1
2-Butanone	ND		ug/kg	13	0.87	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.22	1
Bromochloromethane	ND		ug/kg	6.3	0.45	1
2,2-Dichloropropane	ND		ug/kg	6.3	0.57	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.3	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Bromobenzene	ND		ug/kg	6.3	0.28	1
n-Butylbenzene	ND		ug/kg	1.3	0.29	1
sec-Butylbenzene	ND		ug/kg	1.3	0.27	1
tert-Butylbenzene	ND		ug/kg	6.3	0.31	1
o-Chlorotoluene	ND		ug/kg	6.3	0.28	1
p-Chlorotoluene	ND		ug/kg	6.3	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.44	1
Isopropylbenzene	0.41	J	ug/kg	1.3	0.24	1
p-Isopropyltoluene	1.5		ug/kg	1.3	0.25	1
Naphthalene	ND		ug/kg	6.3	0.17	1
n-Propylbenzene	ND		ug/kg	1.3	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	0.23	1
p-Diethylbenzene	ND		ug/kg	5.0	5.0	1
p-Ethyltoluene	ND		ug/kg	5.0	0.30	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.20	1



Project Name: 48 GYRODYNE INDUSTRIAL

Lab Number: L1807506

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Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-02
Client ID: EP-13ST
Sample Location: 1 FLOWERFIELD, ST. JAMES
Sample Depth:

Date Collected: 03/05/18 11:25
Date Received: 03/05/18
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	91		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	100		70-130



Project Name: 48 GYRODYNE INDUSTRIAL

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Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-03
 Client ID: EP-13PLP
 Sample Location: 1 FLOWERFIELD, ST. JAMES
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/09/18 12:29
 Analyst: MV
 Percent Solids: 90%

Date Collected: 03/05/18 11:40
 Date Received: 03/05/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	9.7	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.26	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.97	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.97	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	0.97	0.29	1
Chlorobenzene	ND		ug/kg	0.97	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.40	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.97	0.34	1
Bromodichloromethane	ND		ug/kg	0.97	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.97	0.22	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.32	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.97	0.29	1
Benzene	ND		ug/kg	0.97	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.97	0.16	1
Vinyl chloride	ND		ug/kg	1.9	0.31	1
Chloroethane	ND		ug/kg	1.9	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.23	1
Trichloroethene	ND		ug/kg	0.97	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.18	1



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Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-03
 Client ID: EP-13PLP
 Sample Location: 1 FLOWERFIELD, ST. JAMES
 Sample Depth:

Date Collected: 03/05/18 11:40
 Date Received: 03/05/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.9	0.15	1
p/m-Xylene	ND		ug/kg	1.9	0.34	1
o-Xylene	ND		ug/kg	1.9	0.33	1
Xylenes, Total	ND		ug/kg	1.9	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.33	1
Dibromomethane	ND		ug/kg	9.7	0.23	1
Styrene	ND		ug/kg	1.9	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.49	1
Acetone	10		ug/kg	9.7	2.2	1
2-Butanone	ND		ug/kg	9.7	0.67	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.7	0.17	1
Bromochloromethane	ND		ug/kg	4.9	0.35	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.44	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.19	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.97	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.21	1
n-Butylbenzene	ND		ug/kg	0.97	0.22	1
sec-Butylbenzene	ND		ug/kg	0.97	0.21	1
tert-Butylbenzene	ND		ug/kg	4.9	0.24	1
o-Chlorotoluene	ND		ug/kg	4.9	0.22	1
p-Chlorotoluene	ND		ug/kg	4.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.38	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.34	1
Isopropylbenzene	ND		ug/kg	0.97	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.20	1
Naphthalene	ND		ug/kg	4.9	0.13	1
n-Propylbenzene	ND		ug/kg	0.97	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.18	1
p-Diethylbenzene	ND		ug/kg	3.9	3.9	1
p-Ethyltoluene	ND		ug/kg	3.9	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.9	0.15	1



Project Name: 48 GYRODYNE INDUSTRIAL

Lab Number: L1807506

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Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-03
Client ID: EP-13PLP
Sample Location: 1 FLOWERFIELD, ST. JAMES
Sample Depth:

Date Collected: 03/05/18 11:40
Date Received: 03/05/18
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	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130



Project Name: 48 GYRODYNE INDUSTRIAL

Lab Number: L1807506 RECEIVED NYSOFF: 06/14/2022 Page 1 of 53

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-04
 Client ID: EP-12PLP
 Sample Location: 1 FLOWERFIELD, ST. JAMES
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/09/18 12:55
 Analyst: MV
 Percent Solids: 83%

Date Collected: 03/05/18 12:05
 Date Received: 03/05/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.28	1
Chloroform	ND		ug/kg	1.5	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.35	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.23	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.31	1
Chlorobenzene	4.1		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.1	0.34	1
Bromoform	ND		ug/kg	4.1	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30	1
Benzene	0.92	J	ug/kg	1.0	0.20	1
Toluene	1.3	J	ug/kg	1.5	0.20	1
Ethylbenzene	2.3		ug/kg	1.0	0.17	1
Vinyl chloride	ND		ug/kg	2.0	0.32	1
Chloroethane	ND		ug/kg	2.0	0.32	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.38	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.25	1
Trichloroethene	ND		ug/kg	1.0	0.31	1
1,2-Dichlorobenzene	0.29	J	ug/kg	5.1	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.1	0.22	1
1,4-Dichlorobenzene	1.0	J	ug/kg	5.1	0.19	1



Project Name: 48 GYRODYNE INDUSTRIAL

Lab Number: RECEIVED NYSOFF: 06/14/2022
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Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-04
 Client ID: EP-12PLP
 Sample Location: 1 FLOWERFIELD, ST. JAMES
 Sample Depth:

Date Collected: 03/05/18 12:05
 Date Received: 03/05/18
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	0.16	1
p/m-Xylene	3.9		ug/kg	2.0	0.36	1
o-Xylene	6.0		ug/kg	2.0	0.35	1
Xylenes, Total	9.9		ug/kg	2.0	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.35	1
Dibromomethane	ND		ug/kg	10	0.24	1
Styrene	ND		ug/kg	2.0	0.41	1
Dichlorodifluoromethane	ND		ug/kg	10	0.51	1
Acetone	6.1	J	ug/kg	10	2.3	1
2-Butanone	ND		ug/kg	10	0.71	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
Bromochloromethane	ND		ug/kg	5.1	0.37	1
2,2-Dichloropropane	ND		ug/kg	5.1	0.46	1
1,2-Dibromoethane	ND		ug/kg	4.1	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.1	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.1	0.22	1
n-Butylbenzene	ND		ug/kg	1.0	0.23	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.1	0.25	1
o-Chlorotoluene	ND		ug/kg	5.1	0.23	1
p-Chlorotoluene	ND		ug/kg	5.1	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	0.41	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.36	1
Isopropylbenzene	0.39	J	ug/kg	1.0	0.20	1
p-Isopropyltoluene	0.38	J	ug/kg	1.0	0.21	1
Naphthalene	0.92	J	ug/kg	5.1	0.14	1
n-Propylbenzene	0.91	J	ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.1	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.1	0.22	1
1,3,5-Trimethylbenzene	2.2	J	ug/kg	5.1	0.16	1
1,2,4-Trimethylbenzene	1.8	J	ug/kg	5.1	0.19	1
p-Diethylbenzene	ND		ug/kg	4.1	4.1	1
p-Ethyltoluene	3.4	J	ug/kg	4.1	0.24	1
1,2,4,5-Tetramethylbenzene	0.75	J	ug/kg	4.1	0.16	1



Project Name: 48 GYRODYNE INDUSTRIAL

Lab Number: L1807506

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Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-04
Client ID: EP-12PLP
Sample Location: 1 FLOWERFIELD, ST. JAMES
Sample Depth:

Date Collected: 03/05/18 12:05
Date Received: 03/05/18
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	99		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130



NYSCEF DOC. NO. 48

Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

Report Date: 03/12/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 03/09/18 09:52
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1095945-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

Report Date: 03/12/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 03/09/18 09:52
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1095945-5					
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.22

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Project Name: GYRODYNE INDUSTRIAL
Project Number: GCA1704

Lab Number: L1807506
Report Date: 03/12/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 03/09/18 09:52
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1095945-5					
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
Freon-113	ND		ug/kg	20	0.51
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GYRODYNE INDUSTRIAL
Project Number: GCA1704

Lab Number: L1807506
Report Date: 03/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1095945-3 WG1095945-4								
Methylene chloride	100		93		70-130	7		30
1,1-Dichloroethane	102		92		70-130	10		30
Chloroform	100		92		70-130	8		30
Carbon tetrachloride	105		95		70-130	10		30
1,2-Dichloropropane	104		96		70-130	8		30
Dibromochloromethane	93		92		70-130	1		30
1,1,2-Trichloroethane	91		95		70-130	4		30
Tetrachloroethene	102		87		70-130	16		30
Chlorobenzene	90		86		70-130	5		30
Trichlorofluoromethane	104		91		70-139	13		30
1,2-Dichloroethane	88		93		70-130	6		30
1,1,1-Trichloroethane	97		92		70-130	5		30
Bromodichloromethane	102		96		70-130	6		30
trans-1,3-Dichloropropene	95		95		70-130	0		30
cis-1,3-Dichloropropene	103		95		70-130	8		30
1,1-Dichloropropene	95		90		70-130	5		30
Bromoform	86		86		70-130	0		30
1,1,2,2-Tetrachloroethane	77		86		70-130	11		30
Benzene	95		91		70-130	4		30
Toluene	93		85		70-130	9		30
Ethylbenzene	85		86		70-130	1		30
Vinyl chloride	98		87		67-130	12		30
Chloroethane	90		82		50-151	9		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE INDUSTRIAL
Project Number: GCA1704

Lab Number: L1807506
Report Date: 03/12/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1095945-3 WG1095945-4								
1,1-Dichloroethene	104		91		65-135	13		30
trans-1,2-Dichloroethene	104		93		70-130	11		30
Trichloroethene	100		93		70-130	7		30
1,2-Dichlorobenzene	91		87		70-130	4		30
1,3-Dichlorobenzene	90		86		70-130	5		30
1,4-Dichlorobenzene	89		85		70-130	5		30
Methyl tert butyl ether	95		94		66-130	1		30
p/m-Xylene	90		88		70-130	2		30
o-Xylene	90		89		70-130	1		30
cis-1,2-Dichloroethene	102		94		70-130	8		30
Dibromomethane	101		102		70-130	1		30
Styrene	88		89		70-130	1		30
Dichlorodifluoromethane	93		81		30-146	14		30
Acetone	183	Q	131		54-140	33	Q	30
2-Butanone	121		119		70-130	2		30
4-Methyl-2-pentanone	87		88		70-130	1		30
1,2,3-Trichloropropane	75		87		68-130	15		30
Bromochloromethane	107		100		70-130	7		30
2,2-Dichloropropane	103		91		70-130	12		30
1,2-Dibromoethane	94		99		70-130	5		30
1,3-Dichloropropane	91		94		69-130	3		30
1,1,1,2-Tetrachloroethane	91		90		70-130	1		30
Bromobenzene	89		86		70-130	3		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE INDUSTRIAL
Project Number: GCA1704

Lab Number: L1807506
Report Date: 03/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1095945-3 WG1095945-4								
n-Butylbenzene	82		82		70-130	0		30
sec-Butylbenzene	84		81		70-130	4		30
tert-Butylbenzene	85		80		70-130	6		30
o-Chlorotoluene	78		80		70-130	3		30
p-Chlorotoluene	80		81		70-130	1		30
1,2-Dibromo-3-chloropropane	78		83		68-130	6		30
Hexachlorobutadiene	88		82		67-130	7		30
Isopropylbenzene	80		79		70-130	1		30
p-Isopropyltoluene	86		81		70-130	6		30
Naphthalene	84		83		70-130	1		30
n-Propylbenzene	80		80		70-130	0		30
1,2,3-Trichlorobenzene	90		87		70-130	3		30
1,2,4-Trichlorobenzene	88		86		70-130	2		30
1,3,5-Trimethylbenzene	82		81		70-130	1		30
1,2,4-Trimethylbenzene	83		81		70-130	2		30
Freon-113	107		94		50-139	13		30
p-Diethylbenzene	86		82		70-130	5		30
p-Ethyltoluene	82		80		70-130	2		30
1,2,4,5-Tetramethylbenzene	88		82		70-130	7		30



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE INDUSTRIAL
Project Number: GCA1704

Lab Number: L1807506
Report Date: 03/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1095945-3 WG1095945-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		97		70-130
Toluene-d8	103		101		70-130
4-Bromofluorobenzene	86		94		70-130
Dibromofluoromethane	97		98		70-130



SEMIVOLATILES



NYSCEF DOC NO: 48 Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506 RECEIVED NYSCEF: 06/14/2022 Page 1 of 42

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-01
 Client ID: EP-11SLP
 Sample Location: 1 FLOWERFIELD, ST. JAMES
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/09/18 00:12
 Analyst: RC
 Percent Solids: 84%

Date Collected: 03/05/18 10:45
 Date Received: 03/05/18
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 03/07/18 02:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Fluoranthene	ND		ug/kg	120	22.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	76		18-120



NYSCEF DOC NO: 48 Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506 RECEIVED: NYSCEF No: 06/14/2022 Page 1 of 549

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-05
 Client ID: EP-SD13
 Sample Location: 1 FLOWERFIELD, ST. JAMES
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/09/18 02:35
 Analyst: RC
 Percent Solids: 80%

Date Collected: 03/05/18 12:55
 Date Received: 03/05/18
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 03/07/18 02:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Fluoranthene	80	J	ug/kg	120	24.	1
Benzo(a)anthracene	35	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	68	J	ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	51	J	ug/kg	120	22.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	44	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	35	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	39	J	ug/kg	160	29.	1
Pyrene	70	J	ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	57		18-120



NYSCEF DOC NO: 48 Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506 RECEIVED NYSCEF: 06/14/2022 Page 1 of 544

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-06
 Client ID: EP-SD17
 Sample Location: 1 FLOWERFIELD, ST. JAMES
 Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/09/18 02:11
 Analyst: RC
 Percent Solids: 78%

Date Collected: 03/05/18 13:05
 Date Received: 03/05/18
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 03/07/18 02:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Fluoranthene	36	J	ug/kg	120	24.	1
Benzo(a)anthracene	ND		ug/kg	120	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	34.	1
Chrysene	ND		ug/kg	120	22.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	28	J	ug/kg	120	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	73		30-120
4-Terphenyl-d14	56		18-120



NYSCEF DOC. NO. 48

Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

Report Date: 03/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/09/18 18:19
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 03/06/18 21:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,05-06 Batch: WG1095078-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	97	18.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Anthracene	ND		ug/kg	97	31.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

NYSCEF DOC. NO. 48

Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

Report Date: 03/12/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 03/09/18 18:19
Analyst: CB

Extraction Method: EPA 3546
Extraction Date: 03/06/18 21:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,05-06 Batch: WG1095078-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	94		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	97		18-120



Lab Control Sample Analysis
 Batch Quality Control

Project Name: GYRODYNE INDUSTRIAL
Project Number: GCA1704

Lab Number: L1807506
Report Date: 03/12/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05-06 Batch: WG1095078-2 WG1095078-3								
Acenaphthene	68		63		31-137	8		50
Fluoranthene	70		65		40-140	7		50
Benzo(a)anthracene	66		62		40-140	6		50
Benzo(a)pyrene	64		60		40-140	6		50
Benzo(b)fluoranthene	64		58		40-140	10		50
Benzo(k)fluoranthene	64		61		40-140	5		50
Chrysene	65		61		40-140	6		50
Anthracene	70		65		40-140	7		50
Benzo(ghi)perylene	68		65		40-140	5		50
Fluorene	70		64		40-140	9		50
Phenanthrene	68		64		40-140	6		50
Dibenzo(a,h)anthracene	71		67		40-140	6		50
Indeno(1,2,3-cd)pyrene	69		66		40-140	4		50
Pyrene	68		63		35-142	8		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	68		61		25-120
Phenol-d6	69		62		10-120
Nitrobenzene-d5	68		61		23-120
2-Fluorobiphenyl	74		67		30-120
2,4,6-Tribromophenol	71		64		10-136
4-Terphenyl-d14	71		65		18-120



**INORGANICS
&
MISCELLANEOUS**



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-01
Client ID: EP-11SLP
Sample Location: 1 FLOWERFIELD, ST. JAMES
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 10:45
Date Received: 03/05/18
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	84.3		%	0.100	NA	1	-	03/06/18 14:27	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022 Page 11550

Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-02
Client ID: EP-13ST
Sample Location: 1 FLOWERFIELD, ST. JAMES
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 11:25
Date Received: 03/05/18
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	76.2		%	0.100	NA	1	-	03/06/18 14:27	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022 Page 1551

Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-03
Client ID: EP-13PLP
Sample Location: 1 FLOWERFIELD, ST. JAMES
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 11:40
Date Received: 03/05/18
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	90.1		%	0.100	NA	1	-	03/06/18 14:27	121,2540G	RI



Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-04
Client ID: EP-12PLP
Sample Location: 1 FLOWERFIELD, ST. JAMES
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 12:05
Date Received: 03/05/18
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	82.6		%	0.100	NA	1	-	03/06/18 14:27	121,2540G	RI



Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-05
Client ID: EP-SD13
Sample Location: 1 FLOWERFIELD, ST. JAMES
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 12:55
Date Received: 03/05/18
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	79.5		%	0.100	NA	1	-	03/06/18 14:27	121,2540G	RI



NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022

Project Name: GYRODYNE INDUSTRIAL

Lab Number: L1807506

Project Number: GCA1704

Report Date: 03/12/18

SAMPLE RESULTS

Lab ID: L1807506-06
Client ID: EP-SD17
Sample Location: 1 FLOWERFIELD, ST. JAMES
Sample Depth:
Matrix: Soil

Date Collected: 03/05/18 13:05
Date Received: 03/05/18
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	78.4		%	0.100	NA	1	-	03/06/18 14:27	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: GYRODYNE INDUSTRIAL
Project Number: GCA1704

Lab Number: L1807506
Report Date: 03/12/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1094935-1 QC Sample: L1807527-06 Client ID: DUP Sample						
Solids, Total	85.7	85.4	%	0		20



NYSCEF DOC NO: 48 **Project Name:** GYRODYNE INDUSTRIAL

FILED BY: NYSCEF: 06/14/2022
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Project Number: GCA1704

Report Date: 03/12/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1807506-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.0	Y	Absent		NYSUFFOLK-8260(14)
L1807506-01B	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		TS(7),NYSUFFOLK-8270(14)
L1807506-01X	Vial MeOH preserved split	A	NA		2.0	Y	Absent		NYSUFFOLK-8260(14)
L1807506-01Y	Vial Water preserved split	A	NA		2.0	Y	Absent	08-MAR-18 16:25	NYSUFFOLK-8260(14)
L1807506-01Z	Vial Water preserved split	A	NA		2.0	Y	Absent	08-MAR-18 16:25	NYSUFFOLK-8260(14)
L1807506-02A	Vial Large Septa unpreserved (4oz)	A	NA		2.0	Y	Absent		NYSUFFOLK-8260(14),TS(7)
L1807506-02X	Vial MeOH preserved split	A	NA		2.0	Y	Absent		NYSUFFOLK-8260(14)
L1807506-02Y	Vial Water preserved split	A	NA		2.0	Y	Absent	08-MAR-18 16:25	NYSUFFOLK-8260(14)
L1807506-02Z	Vial Water preserved split	A	NA		2.0	Y	Absent	08-MAR-18 16:25	NYSUFFOLK-8260(14)
L1807506-03A	Vial Large Septa unpreserved (4oz)	A	NA		2.0	Y	Absent		NYSUFFOLK-8260(14),TS(7)
L1807506-03X	Vial MeOH preserved split	A	NA		2.0	Y	Absent		NYSUFFOLK-8260(14)
L1807506-03Y	Vial Water preserved split	A	NA		2.0	Y	Absent	08-MAR-18 16:25	NYSUFFOLK-8260(14)
L1807506-03Z	Vial Water preserved split	A	NA		2.0	Y	Absent	08-MAR-18 16:25	NYSUFFOLK-8260(14)
L1807506-04A	Vial Large Septa unpreserved (4oz)	A	NA		2.0	Y	Absent		NYSUFFOLK-8260(14),TS(7)
L1807506-04X	Vial MeOH preserved split	A	NA		2.0	Y	Absent		NYSUFFOLK-8260(14)
L1807506-04Y	Vial Water preserved split	A	NA		2.0	Y	Absent	08-MAR-18 16:25	NYSUFFOLK-8260(14)
L1807506-04Z	Vial Water preserved split	A	NA		2.0	Y	Absent	08-MAR-18 16:25	NYSUFFOLK-8260(14)
L1807506-05A	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		TS(7),NYSUFFOLK-8270(14)
L1807506-06A	Glass 120ml/4oz unpreserved	A	NA		2.0	Y	Absent		TS(7),NYSUFFOLK-8270(14)



Project Name: GYRODYNE INDUSTRIAL

Lab Number:

Project Number: GCA1704

Report Date: 03/12/18

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers

Project Name: GYRODYNE INDUSTRIAL**Lab Number:**

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Project Number: GCA1704**Report Date:** 03/12/18**Data Qualifiers**

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.
- 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: GYRODYNE INDUSTRIAL

Lab Number: L1807506 Page 1-1559

Project Number: GCA1704

Report Date: 03/12/18

REFERENCES

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

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.



Facility: **Company-wide**

Department: **Quality Assurance**

Title: **Certificate/Approval Program Summary**

Revision 11
Published Date: 1/8/2018 4:15:49 PM

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Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, 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; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

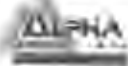
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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



Westborough, MA 01581
8 Pleasant St.
TEL: 508-860-0020
FAX: 508-869-0153

**NEW YORK
CHAIN OF
CUSTODY**

Westborough, MA 02040
240 Foster Blvd.
TEL: 508-872-9000
FAX: 508-872-3288

Service Center
Mahwah, NJ 07430: 95 Wilsey Rd, Suite 3
Albany, NY 12203: 14 Wilbur Way
Troy, NY 12180: 215 Cooper Ave, Suite 103

Page
1 of 1

Client Information

Project Name: Gyrodyne Industrial

Project Location: 1 Flowerfield St. James

Project # GCA1704

(Use Project name as Project #)

Project Manager: Tom Melia

ALPHA Quote # _____

Analysis Date

Standard Due Date _____
Rush (only if pre-approved) # of Days _____

Three samples have been previously analyzed by Alpha

Other project specific requirements/comments: _____

Please specify Metals or TAL: _____

Analysis Information

ASP-A ASP-B

EQUS (I File) EQUS (A File)

Other Results only

Regulatory Requirement

NY TOGS NY Part 375

AWQ Standard NY CP-5

NY Restricted Use Other

NY Unrestricted Use

NYC Sewer Discharge

Billing Information

Same as Client Info

Disposal Information

Please identify the location of applicable disposal facilities:

Disposal Facility:

NJ NY Other _____

Sample Filtration

Done

Lab to do

Preservation

Lab to do

(Please Specify below)

Sample Specific Comments

Sample ID	Collection		Sample Matrix	Sampler's Initials	SCDS VOLs	SCDS SVOLs
	Date	Time				
EP-11SLP	3/5/18	1045	S	ME	X	X
EP-13ST		1125			X	X
EP-13PLP		1140			X	X
EP-12PLP		1205			X	X
EP-SD13		1255				X
EP-SD17		1305				X

Preservative Code:

A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₈
K/E = Zn Ac/NaOH
S = DWA

Container Code:

= Plastic
A = Amber/Glass
V = Vial
G = Glass
B = Reagent Cup
C = Can
D = Other
E = Encore
D = 80D Bottle

Westboro Certification No: MA935
Manchester Certification No: MA015

Container Type _____
Preservative _____

Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	3/5/18 1450	<i>[Signature]</i>	3/5/18 1450
<i>[Signature]</i>	3/5/18 1714	<i>[Signature]</i>	3/5/18 1714
<i>[Signature]</i>	3/5/18 2235	<i>[Signature]</i>	3/5/18 2235

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

APPENDIX C WASTE MANIFESTS

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140615
Date: 3/1/2018
Time: 10:00:31 - 11:21:02

Gross: 73340 lb In Scale 1
Tare: 48260 lb Out Scale 1
Net: 25080 lb

Truck: P-1
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

Comment:

Manifest: 27254

Origin	Materials & Services	Quantity	Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	12.54	Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
NANCY WAGNER

11704

Waste Manifest Number

27254



PI
395988

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

Non Hazardous Waste Manifest

PERMIT # 1-4720-00317/00001

New York State DEC Licensed Transfer Facility
BIC # 1272

Generator of Waste Material

1. Customer Name: Gyrodyn 2. Phone Number: _____
3. Street Address: 1 Flower Field 4. City/State/Zip: St James

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] Agent of Gyrodyn Date: 3-1-18
Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)			QUANTITY	NYS DEC N-CODE
	Cubic Yards	Gallons	Tons		
<u>Non haz solids</u>				<u>15</u>	

Others and special handling instructions, if any:

Transporter of Waste

NOTE: TRANSPORTER SIGNATURE REQUIRED

1. Company Name: CB 2. Address: _____
3. Phone: _____ 4. Pump Out Date: 3-1-18
5. Vehicle License No: X38X4C 6. NYS DEC Permit No: 2A2G3

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: 3-1-18

Acceptance by ClearBrook

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

Transfer Date: 3-1-18 Time: _____ Sample ID# _____
Signature of Authorized Agent: [Signature] Print Name: Dorothy Wagner

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

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140638
Date: 3/1/2018
Time: 15:36:04 - 16:12:58

Gross: 63960 lb In Manual Wt
Tare: 46060 lb Out Manual Wt
Net: 17900 lb

Truck: P-1
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

Comment: -

Manifest: 27255

Origin	Materials & Services	Quantity	Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	8.95	Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
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

PI
396056

Waste Manifest Number
27255

Non Hazardous Waste Manifest

PERMIT # 1-4720-00317/00001

Generator of Waste Material

1. Customer Name: Gyrodyne 2. Phone Number: _____
3. Street Address: 1 Flowerfield 4. City/State/Zip: St James

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] Agent of Gyrodyne Date: 3-1-18
Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)			QUANTITY	NYS DEC N-CODE
	Cubic Yards	Gallons	Tons		
<u>Nonhaz Solids</u>	<u>(C)</u>			<u>6</u>	

Others and special handling instructions, if any:

Transporter of Waste

NOTE: TRANSPORTER SIGNATURE REQUIRED

1. Company Name: CB 2. Address: _____
3. Phone: _____ 4. Pump Out Date: 3-1-18
5. Vehicle License No: X38X40 6. NYS DEC Permit No: 2A2G3

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: 3-1-18

Acceptance by ClearBrook

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

Transfer Date: 3-1-18 Time: _____ Sample ID# _____
Signature of Authorized Agent: Nancy Wagner Print Name: Nancy Wagner

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

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140850
Date: 3/5/2018
Time: 13:23:28 - 14:03:40

Gross: 67620 lb In Scale 1
Tare: 47380 lb Out Scale 1
Net: 20240 lb

Truck: 7010
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

License: RA92750

Carrier: Clearbrook
Comment:

Manifest: 27898

Origin	Materials & Services	Quantity Unit
7/SUFFOLK	SANTYGRIT/Sanitary Grit	10.12 Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
NANCY WAGNER



Waste Manifest Number
27898

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

Non Hazardous Waste Manifest

New York State DEC Licensed Transfer Facility
BIC # 1272

Truck # 7010
WO # 396 176

PERMIT # 1-4720-00317/00001

Generator of Waste Material

1. Customer Name: Gyrodyne Industrial 2. Phone Number: _____
3. Street Address: 1 Flowerfield 4. City/State/Zip: Saint James NY 11780

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] Agent of Gyrodyne Date: 3/5/18
Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)	QUANTITY	NYS DEC N-CODE
<u>non haz solid material</u>	<u>Cubic Yards</u> Gallons Tons	<u>15</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: 3/5/18
5. Vehicle License No: 21497-MG 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: Anthony Williams Signature: [Signature] Date: 3/5/18

Acceptance by ClearBrook

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

Transfer Date: 3-5-18 Time: _____ Sample ID# _____
Signature of Authorized Agent: [Signature] Print Name: Nancy Unger

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

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140853
Date: 3/5/2018
Time: 10:25:06 - 10:39:50

Gross: 67180 lb In Manual Wt
Tare: 48000 lb Out Manual Wt
Net: 19180 lb

Truck: P-1
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

Comment:

Manifest: 27256

Origin	Materials & Services	Quantity	Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	9.59	Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
NANCY WAGNER



396258

Waste Manifest Number
27256

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

Non Hazardous Waste Manifest

New York State DEC Licensed Transfer Facility
 BIC # 1272

PERMIT # 1-4720-00317/00001

Generator of Waste Material

1. Customer Name: Gyrodyne 2. Phone Number: _____
 3. Street Address: 71 Flowerfield 4. City/State/Zip: SI James

**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] Agent of Gyrodyne Date: 3-05-18
 Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)			QUANTITY	NYS DEC N-CODE
	Cubic Yards	Gallons	Tons		
<u>Non haz Solids</u>	<u>(Circled)</u>			<u>15</u>	

Others and special handling instructions, if any:

Transporter of Waste

NOTE: TRANSPORTER SIGNATURE REQUIRED

1. Company Name: L3 2. Address: _____
 3. Phone: _____ 4. Pump Out Date: 3-5-18
 5. Vehicle License No: X38X410 6. NYS DEC Permit No: 2A265

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: 3-5-18

Acceptance by ClearBrook

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

Transfer Date: 3-5-18 Time: _____ Sample ID# _____
 Signature of Authorized Agent: [Signature] Print Name: Wanda Wagner

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

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140857
Date: 3/5/2018
Time: 14:26:36 - 14:47:34

Gross: 51020 lb In Scale 1
Tare: 45580 lb Out Scale 1
Net: 5440 lb

Truck: P-1
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

Comment:

Manifest: 27257

Origin	Materials & Services	Quantity	Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	2.72	Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
NANCY WAGNER

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

MANIFEST NUMBER		
Part 1	Part 2	Part 3
		204293
Date of Pick-Up (Use 2 Digit Numbers) Example 040103	Time of Pick-Up (Military Time)	Chronological Number /Also Used as Sample # (Assigned at Clear Flo- Receiving Station)
3-5-18	9:20AM	

LIQUID WASTE DISCHARGE MANIFEST

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

A. Volume:	Gallons: <u>7,000</u>	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 checked="" 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): Gyradyne B. Tel. No: _____

C. Complete Pickup Address: A Flower Field ST JAMES 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] Agent of Gyradyne Date: 3/5/18

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

A. Company name (print or type): Direct Drainage / [Signature]

B. SCDPW Permit No.: 75256 C. Vehicle License No.: 70907C D. Pump Out Date: 3-5-18

E. NYS DEC Permit No.: 7A226

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: 3/5/18 Sample ID No: 204293

Signature of authorized agent and title: [Signature]

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

CITIZEN BOOK

NYSCEF DOC. NO. 48

RECEIVED NYSCEF: 06/14/2022
Page I-1573

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140375
Date: 2/26/2018
Time: 11:20:17 - 11:35:04

Gross: 71780 lb In Scale 1
Tare: 54120 lb Out Scale 1
Net: 17660 lb

Truck: 7005
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

License: 25109MD

Comment:

Manifest: 27816

Origin	Materials & Services	Quantity	Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	8.83	Ton

30

Driver: _____

Deputy Weighmaster:

Nancy Wagner
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
27816

Non Hazardous Waste Manifest

7005
PERMIT # 1-4720-00317/00001

Generator of Waste Material

1. Customer Name: Gyrodyne Industrial 2. Phone Number: _____
 3. Street Address: 1 Flower Field 4. City/State/Zip: Saint James NY

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] Agent of Gyrodyne Date: 2/26/18
 Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)			QUANTITY	NYS DEC N-CODE
	Cubic Yards	Gallons	Tons		
<u>Septic Sludge</u>	(C)			<u>15 cu</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: 2/26/18
 5. Vehicle License No: 25109 MD 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: Fred Diggs Signature: [Signature] Date: 2/26/18

Acceptance by ClearBrook

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

Transfer Date: 2-26-18 Time: _____ Sample ID# _____
 Signature of Authorized Agent: [Signature] Print Name: Nancy Wagner

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140386
Date: 2/26/2018
Time: 15:07:20 - 15:38:28

Gross: 66000 lb In Scale 1
Tare: 48340 lb Out Scale 1
Net: 17660 lb

Truck: 7005
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

License: 25109MD

Comment:

Manifest: 27817

Origin	Materials & Services	Quantity	Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	8.83	Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
NANCY WAGNER



Waste Manifest Number
27817

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

7005

Non Hazardous Waste Manifest

PERMIT # 1-4720-00317/00001

New York State DEC Licensed Transfer Facility
BIC # 1272

395845

Generator of Waste Material

1. Customer Name: Gyrodyme industrial 2. Phone Number: _____
3. Street Address: 1 Flowerfield 4. City/State/Zip: Saint James, NY

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: 2/26/18
Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)	QUANTITY	NYS DEC N-CODE
<u>Septic Sludge</u>	Cubic Yards <input checked="" type="radio"/> Gallons <input type="radio"/> Tons <input type="radio"/>	<u>12 cy</u>	

Others and special handling instructions, if any:

Transporter of Waste

Industrial

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: 2/26/18
5. Vehicle License No: 25109 MS 7128 6. NYS DEC Permit No: 201263

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: Fred Diggs Signature: [Signature] Date: 2/26/18

Acceptance by ClearBrook

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

Transfer Date: 2-26-18 Time: _____ Sample ID# _____

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

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

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140452
Date: 2/27/2018
Time: 11:37:48 - 11:52:03

Gross: 65560 lb In Scale 1
Tare: 45860 lb Out Scale 1
Net: 19700 lb

Truck: P-1
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

Comment:

Manifest: 27149

Origin	Materials & Services	Quantity	Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	9.85	Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
NANCY WAGNER



395843

27149

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

Non Hazardous Waste Manifest

New York State DEC Licensed Transfer Facility
BIC # 1272

PERMIT # 1-4720-00317/00001

Generator of Waste Material

1. Customer Name: Cyrodine 2. Phone Number: _____
3. Street Address: 1 Flower Field 4. City/State/Zip: St James

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: 2-27-18
Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)	QUANTITY	NYS DEC N-CODE
<u>Nonhaz Solids</u>	Cubic Yards <input checked="" type="radio"/> Gallons <input type="radio"/> Tons <input type="radio"/>	<u>15</u>	

Others and special handling instructions, if any:

Transporter of Waste

NOTE: TRANSPORTER SIGNATURE REQUIRED

1. Company Name: CB 2. Address: _____
3. Phone: _____ 4. Pump Out Date: 2-27-18
5. Vehicle License No: X3FX40 6. NYS DEC Permit No: 2A263

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: 2-27-18

Acceptance by ClearBrook

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

Transfer Date: 2-27-18 Time: _____ Sample ID# _____
Signature of Authorized Agent: [Signature] Print Name: Nancy Wagoner

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

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140468
Date: 2/27/2018
Time: 15:40:35 - 16:33:43

Gross: 58840 lb In Scale 1
Tare: 45220 lb Out Scale 1
Net: 13620 lb

Truck: P-1
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

Comment:

Manifest: 27150

Origin	Materials & Services	Quantity Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	6.81 Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
NANCY WAGNER



PI
395922

Waste Manifest Number
27150

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

Non Hazardous Waste Manifest

New York State DEC Licensed Transfer Facility
BIC # 1272

PERMIT # 1-4720-00317/00001

Generator of Waste Material

1. Customer Name: Gyrodyne 2. Phone Number: _____
 3. Street Address: 1 Flowerfield 4. City/State/Zip: St James

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] Agent of Gyrodyne Date: 2-26
 Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)			QUANTITY	NYS DEC N-CODE
	Cubic Yards	Gallons	Tons		
<u>Non-haz Sol. Ids</u>	<u>(Circled)</u>			<u>6</u>	

Others and special handling instructions, if any:

Transporter of Waste

NOTE: TRANSPORTER SIGNATURE REQUIRED

1. Company Name: CB 2. Address: _____
 3. Phone: _____ 4. Pump Out Date: 2-26-18
 5. Vehicle License No: XBFX40 6. NYS DEC Permit No: 2A2G3

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: 2-26-18

Acceptance by ClearBrook

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

Transfer Date: 2-26-18 Time: _____ Sample ID# _____
 Signature of Authorized Agent: [Signature] Print Name: Nancy Wagner

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

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140537
Date: 2/28/2018
Time: 11:23:34 - 11:50:02

Gross: 67880 lb In Scale 1
Tare: 51420 lb Out Scale 1
Net: 16460 lb

Truck: P-1
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

Comment:

Manifest: 27151

Origin	Materials & Services	Quantity Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	8.23 Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
NANCY WAGNER



395955

Waste Manifest Number

27151

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

Non Hazardous Waste Manifest

New York State DEC Licensed Transfer Facility
BIC # 1272

PERMIT # 1-4720-00317/00001

Generator of Waste Material

1. Customer Name: Gyrodyne 2. Phone Number: _____
3. Street Address: 1 Flowerfield 4. City/State/Zip: St James

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] Agent of Gyrodyne Date: 2-28-18
Print Name: Nicholas Iannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)			QUANTITY	NYS DEC N-CODE
	Cubic Yards	Gallons	Tons		
<u>Nonhaz solids</u>	<u>(C)</u>			<u>15</u>	

Others and special handling instructions, if any:

Transporter of Waste

NOTE: TRANSPORTER SIGNATURE REQUIRED

1. Company Name: CB 2. Address: _____
3. Phone: _____ 4. Pump Out Date: 2-28-18
5. Vehicle License No: X36x40 6. NYS DEC Permit No: 2A263

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: CA Signature: [Signature] Date: 2-28-18

Acceptance by ClearBrook

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

Transfer Date: 2-28-18 Time: _____ Sample ID# _____
Signature of Authorized Agent: [Signature] Print Name: Nancy Wagner

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

Clearbrook TEI Company
972 Nicolls Road
Deer Park, NY 11729

Ticket: 1140553
Date: 2/28/2018
Time: 14:54:19 - 15:29:35

Gross: 65540 lb In Scale 1
Tare: 47620 lb Out Scale 1
Net: 17920 lb

Trucks: P-1
Customer: Clearbrook
972 NICOLLS RD
DEER PARK, NY 11729-3806

Comment:

Manifest: 27148

Origin	Materials & Services	Quantity	Unit
7/SUFFOLK	4DISPCS/Disposal of Contamina	8.96	Ton

Driver: _____

Deputy Weighmaster: _____

Nancy Wagner
NANCY WAGNER



395989

Waste Manifest Number

27148

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

Non Hazardous Waste Manifest

New York State DEC Licensed Transfer Facility
BIC # 1272

PERMIT # 1-4720-00317/00001

Generator of Waste Material

1. Customer Name: Gyrodyne 2. Phone Number: _____
3. Street Address: 1 flowerfield 4. City/State/Zip: St James

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: 2-28-18
Print Name: Nicholas Lannucci

Wastestream Identification: Circle/Fill Out All Boxes

DESCRIPTION OF WASTE	UNIT (Circle One)			QUANTITY	NYS DEC N-CODE
	Cubic Yards	Gallons	Tons		
<u>NON haz solids</u>	<u>(Circled)</u>			<u>15</u>	

Others and special handling instructions, if any:

Transporter of Waste

NOTE: TRANSPORTER SIGNATURE REQUIRED

1. Company Name: CB 2. Address: _____
3. Phone: _____ 4. Pump Out Date: 2-28-18
5. Vehicle License No: X32X10 6. NYS DEC Permit No: 2A2C3

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: 2-28-18

Acceptance by ClearBrook

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

Transfer Date: 2-28-18 Time: _____ Sample ID# _____
Signature of Authorized Agent: [Signature] Print Name: Wanda Weber

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

MANIFEST NUMBER Page 1-1585		
Part 1	Part 2	Part 3
2-26-18	8:30	203749
Date of Pick-Up (Use 2 Digit Numbers) Example 040103	Time of Pick-Up (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: 800	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 checked="" type="checkbox"/> Office/Commercial	<input type="checkbox"/> Municipal
			<input checked="" 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) CYRODYNE IND. CAMPUS B. Tel. No. _____

C. Complete Pickup Address: 1 HOWERTFIELD ST. (RMES 11780)

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: Agent of Gyrodyne, Mike L... Date: 2/26/18

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

A. Company name (print or type): ESSEX

B. SCDPW Permit No. 203749 Vehicle License No. 3D93081 D. Pump Out Date: 2-26-18

E. NYS DEC Permit No. 203749

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: Ruben Fuentes

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: 2/26/18 Sample ID No.: 203749

Signature of authorized agent and title: [Signature]

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

NYSCEF DOC. NO. 48

MANIFEST NUMBER

RECEIVED NYSCEF: 06/14/2022 Page 1-1586

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

Part 1	Part 2	RECEIVED NYSCEF: 06/14/2022 Page 1-1586
2-27-18	9:20	203848
Date of Pick-Up (Use 2 Digit Numbers) Example 040103	Time of Pick-Up (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: 8000	Wt. In:	Wt. Out:
B. Type:	<input type="checkbox"/> Condensate Water <input type="checkbox"/> Leachate Pool <input type="checkbox"/> STP Effluent	<input type="checkbox"/> Decant Grease <input type="checkbox"/> Pharmaceutical <input type="checkbox"/> Transfer Leachate	<input type="checkbox"/> Grease <input checked="" type="checkbox"/> Septic/Septage Other:
C. Source	<input type="checkbox"/> Home/Apt. <input checked="" type="checkbox"/> Office/Commercial	<input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Industrial	<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): BYKODIYNE B. Tel. No.: 45

C. Complete Pickup Address: FLOWERFIELD ST. JAMES 11780

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: Agent of Gysalyne Date: 2/27/18

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

A. Company name (print or type): 1952424

B. SCDPW Permit No. 20026 Vehicle License No. 928 D. Pump Out Date: 2-27-18

E. NYS DEC Permit No. 2A262

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: Hubert...

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: 2/27/18 Sample ID No.: 203848

Signature of authorized agent and title: [Signature]

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

APPENDIX D PHOTO LOG





*Draft Environmental Impact Statement
Map of Flowerfield Subdivision Application*

November 2019

Appendix J:

BURBS Nitrogen Modeling and References

Fractions in this column are shown rounded to 2 or 3 decimal places

Existing

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.068	fraction
2. Fraction of land which is impervious	0.252	fraction
3. Wastewater Amount (Density Flow)	12,823	gpd
3a. Wastewater Amount (Kitchen/Graywater Flow)	6,011	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by OWTS-Nitrogen	0.10	fraction
16a. Wastewater fraction removed by OWTS-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use development:	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.680	fraction
Population Density	1.71	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	2.7	8.0%	2.7	8.2%
Natural Land	16.3	48.4%	0.7	2.1%
Wastewater	3.4	10.1%	27.4	83.0%
Impervious Runoff	11.3	33.5%	2.2	6.7%
TOTAL	33.7	100%	33.0	100%

Nitrogen concentration in recharge =
4.32 mg/l
6.779 lbs/day
2474.3 lbs/year
33.0 lbs/year/acre

Amount of water recharged =
68,609,390 gallons per year
68.61 MG/Year
0.19 MGD

Amount of On-Site Well Water used for Irrigation=
16.00 in/yr/acreage of turf
2,215,636 gallons per year
2.22 MG/Year
0.006 MGD

Final Amount of water recharged =
66,393,754 gallons per year
66.39 MG/Year
0.182 MGD

Fractions in this column are shown rounded to 2 or 3 decimal places

Proposed Action

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.122	fraction
2. Fraction of land which is impervious	0.478	fraction
3. Wastewater Amount (STP Capacity)	100,000	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by STP-Nitrogen (Inc. Leaching Pools)	0.90	fraction
16a. Wastewater fraction removed by STP-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use developments	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.400	fraction
Population Density	13.34	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	4.9	9.1%	4.8	14.8%
Natural Land	9.6	17.8%	0.4	1.2%
Wastewater	17.9	33.2%	23.0	71.0%
Impervious Runoff	21.5	39.9%	4.2	13.0%
TOTAL	53.9	100%	32.4	100%

Nitrogen concentration in recharge =
2.65 mg/l
6.656 lbs/day
2429.4 lbs/year
32.4 lbs/year/acre

Amount of water recharged = **109,734,307 gallons per year**
109.73 MG/Year
0.30 MGD

Amount of On-Site Well Water used for Irrigation=
16.00 in/yr/acreage of turf
3,966,423 gallons per year
3.97 MG/Year
0.011 MGD

Final Amount of water recharged = **105,767,884 gallons per year**
105.77 MG/Year
0.290 MGD

Fractions in this column are shown rounded to 2 or 3 decimal places

Alternative 1

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.105	fraction
2. Fraction of land which is impervious	0.470	fraction
3. Wastewater Amount (STP Capacity)	100,000	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by STP-Nitrogen (inc. Leaching Pools)	0.90	fraction
16a. Wastewater fraction removed by Sewer-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use developments	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.425	fraction
Population Density	13.34	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	4.2	7.9%	4.2	13.2%
Natural Land	10.2	19.1%	0.4	1.3%
Wastewater	17.9	33.5%	23.0	72.6%
Impervious Runoff	21.1	39.5%	4.1	12.9%
TOTAL	53.4	100%	31.7	100%

Nitrogen concentration in recharge =
2.62 mg/l
6,512 lbs/day
2376.9 lbs/year
31.7 lbs/year/acre

Amount of water recharged = **108,716,363 gallons per year**
108.72 MG/Year
0.30 MGD

Amount of On-Site Well Water used for Irrigation=
16.00 in/yr/acreage of turf
3,423,375 gallons per year
3.42 MG/Year
0.009 MGD

Final Amount of water recharged = **105,292,989 gallons per year**
105.29 MG/Year
0.288 MGD

Alternative 2

Fractions in this column are shown rounded to 2 or 3 decimal places

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.105	fraction
2. Fraction of land which is impervious	0.471	fraction
3. Wastewater Amount (STP Capacity)	100,000	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by STP-Nitrogen (Inc. Leaching Pools)	0.90	fraction
16a. Wastewater fraction removed by Sewer-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use developments	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.424	fraction
Population Density	13.34	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	4.2	7.9%	4.2	13.2%
Natural Land	10.1	18.9%	0.4	1.3%
Wastewater	17.9	33.5%	23.0	72.6%
Impervious Runoff	21.2	39.7%	4.1	12.9%
TOTAL	53.4	100%	31.7	100%

Nitrogen concentration in recharge =
2.62 mg/l
6.512 lbs/day
2376.9 lbs/year
31.7 lbs/year/acre

Amount of water recharged = **108,716,363 gallons per year**
108.72 MG/Year
0.30 MGD

Amount of On-Site Well Water used for Irrigation=
16.00 in/yr/acreage of turf
3,423,375 gallons per year
3.42 MG/Year
0.009 MGD

Final Amount of water recharged = **105,292,989 gallons per year**
105.29 MG/Year
0.288 MGD

Alternative 3

Fractions in this column are shown rounded to 2 or 3 decimal places

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.104	fraction
2. Fraction of land which is impervious	0.478	fraction
3. Wastewater Amount (STP Capacity)	100,000	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by STP-Nitrogen (Inc. Leaching Pools)	0.90	fraction
16a. Wastewater fraction removed by Sewer-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use developments	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.418	fraction
Population Density	13.34	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	4.1	7.7%	4.1	12.9%
Natural Land	10.0	18.6%	0.4	1.3%
Wastewater	17.9	33.5%	23.0	72.6%
Impervious Runoff	21.5	40.2%	4.2	13.2%
TOTAL	53.5	100%	31.7	100%

Nitrogen concentration in recharge =
2.62 mg/l
6.512 lbs/day
2376.9 lbs/year
31.7 lbs/year/acre

Amount of water recharged = **108,919,952 gallons per year**
108.92 MG/Year
0.30 MGD

Amount of On-Site Well Water used for Irrigation=
16.00 in/yr/acreage of turf
3,384,275 gallons per year
3.38 MG/Year
0.009 MGD

Final Amount of water recharged = **105,535,677 gallons per year**
105.54 MG/Year
0.289 MGD

Alternative 4

Fractions in this column are shown rounded to 2 or 3 decimal places

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.091	fraction
2. Fraction of land which is impervious	0.461	fraction
3. Wastewater Amount (Density Flow)	37,223	gpd
3a. Wastewater Amount (Kitchen/Graywater Flow)	6,011	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by OWTS-Nitrogen	0.10	fraction
16a. Wastewater fraction removed by OWTS-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use developments	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.447	fraction
Population Density	4.96	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	3.7	8.6%	3.6	4.1%
Natural Land	10.7	24.9%	0.4	0.4%
Wastewater	7.8	18.2%	79.6	90.9%
Impervious Runoff	20.7	48.3%	4.0	4.6%
TOTAL	42.9	100%	87.6	100%

Nitrogen concentration in recharge =	9.02 mg/l
	17,995 lbs/day
	6568.2 lbs/year
	87.6 lbs/year/acre
Amount of water recharged =	87,339,550 gallons per year
	87.34 MG/Year
	0.24 MGD
Amount of On-Site Well Water used for Irrigation=	16.00 in/yr/acreage of turf
	2,980,247 gallons per year
	2.98 MG/Year
	0.008 MGD
Final Amount of water recharged =	84,359,303 gallons per year
	84.36 MG/Year
	0.231 MGD

Alternative 5

Fractions in this column are shown rounded to 2 or 3 decimal places

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.118	fraction
2. Fraction of land which is impervious	0.478	fraction
3. Wastewater Amount (Density Flow)	28,123	gpd
3a. Wastewater Amount (Kitchen/Graywater Flow)	6,011	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by OWTS-Nitrogen	0.10	fraction
16a. Wastewater fraction removed by OWTS-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use developments	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.404	fraction
Population Density	3.75	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	4.7	11.2%	4.7	6.8%
Natural Land	9.7	23.1%	0.4	0.5%
Wastewater	6.1	14.5%	60.1	86.6%
Impervious Runoff	21.5	51.2%	4.2	6.1%
TOTAL	42.0	100%	69.4	100%
Nitrogen concentration in recharge =			7.30 mg/l	
			14,256 lbs/day	
			5203.6 lbs/year	
			69.4 lbs/year/acre	
Amount of water recharged =			85,507,252 gallons per year	
			85.51 MG/Year	
			0.23 MGD	
Amount of On-Site Well Water used for Irrigation=			16.00 in/yr/acreage of turf	
			3,844,780 gallons per year	
			3.84 MG/Year	
			0.011 MGD	
Final Amount of water recharged =			81,662,472 gallons per year	
			81.66 MG/Year	
			0.224 MGD	

Alternative 6

Fractions in this column are shown rounded to 2 or 3 decimal places

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.080	fraction
2. Fraction of land which is impervious	0.252	fraction
3. Wastewater Amount (Density Flow)	12,823	gpd
3a. Wastewater Amount (Kitchen/Graywater Flow)	6,011	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by OWTS-Nitrogen	0.10	fraction
16a. Wastewater fraction removed by OWTS-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use developments	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.668	fraction
Population Density	1.71	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	3.2	9.5%	3.2	9.6%
Natural Land	16.0	47.2%	0.6	1.8%
Wastewater	3.4	10.0%	27.4	82.0%
Impervious Runoff	11.3	33.3%	2.2	6.6%
TOTAL	33.9	100%	33.4	100%

Nitrogen concentration in recharge =
4.35 mg/l
6.861 lbs/day
2504.3 lbs/year
33.4 lbs/year/acre

Amount of water recharged =
69,016,568 gallons per year
69.02 MG/Year
0.19 MGD

Amount of On-Site Well Water used for Irrigation=
16.00 in/yr/acreage of turf
2,615,319 gallons per year
2.62 MG/Year
0.007 MGD

Final Amount of water recharged =
66,401,249 gallons per year
66.40 MG/Year
0.182 MGD

Fractions in this column are shown rounded to 2 or 3 decimal places

Alternative 7

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.121	fraction
2. Fraction of land which is impervious	0.474	fraction
3. Wastewater Amount (STP Capacity)	100,000	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by STP-Nitrogen (Inc. Leaching Pools)	0.90	fraction
16a. Wastewater fraction removed by STP-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use developments	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.405	fraction
Population Density	13.34	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	4.8	8.9%	4.8	14.9%
Natural Land	9.7	18.1%	0.4	1.2%
Wastewater	17.9	33.3%	23.0	71.2%
Impervious Runoff	21.3	39.7%	4.1	12.7%
TOTAL	53.7	100%	32.3	100%
Nitrogen concentration in recharge =			2.66 mg/l	
			6.635 lbs/day	
			2421.9 lbs/year	
			32.3 lbs/year/acre	
Amount of water recharged =			109,327,129 gallons per year	
			109.33 MG/Year	
			0.30 MGD	
Amount of On-Site Well Water used for Irrigation=			16.00 in/yr/acreage of turf	
			3,940,356 gallons per year	
			3.94 MG/Year	
			0.011 MGD	
Final Amount of water recharged =			105,386,773 gallons per year	
			105.39 MG/Year	
			0.289 MGD	

Fractions in this column are shown rounded to 2 or 3 decimal places

Alternative 8

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.122	fraction
2. Fraction of land which is impervious	0.478	fraction
3. Wastewater Amount (STP Capacity)	100,000	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by STP-Nitrogen(Inc. Leaching Pools)	0.90	fraction
16a. Wastewater fraction removed by STP-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use developments	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.400	fraction
Population Density	13.34	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	4.9	9.1%	4.8	14.8%
Natural Land	9.6	17.8%	0.4	1.2%
Wastewater	17.9	33.2%	23.0	71.0%
Impervious Runoff	21.5	39.9%	4.2	13.0%
TOTAL	53.9	100%	32.4	100%

Nitrogen concentration in recharge =
2.65 mg/l
6.656 lbs/day
2429.4 lbs/year
32.4 lbs/year/acre

Amount of water recharged = **109,734,307 gallons per year**
109.73 MG/Year
0.30 MGD

Amount of On-Site Well Water used for Irrigation=
16.00 in/yr/acreage of turf
3,966,423 gallons per year
3.97 MG/Year
0.011 MGD

Final Amount of water recharged = **105,767,884 gallons per year**
105.77 MG/Year
0.290 MGD

Fractions in this column are shown rounded to 2 or 3 decimal places

Alternative 9

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.122	fraction
2. Fraction of land which is impervious	0.480	fraction
3. Wastewater Amount (STP Capacity)	171,000	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by STP-Nitrogen (Inc. Leaching Pools)	0.90	fraction
16a. Wastewater fraction removed by Sewer-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use developments	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.398	fraction
Population Density	22.81	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	4.9	7.3%	4.8	9.8%
Natural Land	9.5	14.3%	0.4	0.9%
Wastewater	30.7	46.0%	39.4	80.7%
Impervious Runoff	21.6	32.4%	4.2	8.6%
TOTAL	66.7	100%	48.8	100%

Nitrogen concentration in recharge = 3.23 mg/l
10.025 lbs/day
3659.0 lbs/year
48.8 lbs/year/acre

Amount of water recharged = 135,793,660 gallons per year
135.79 MG/Year
0.37 MGD

Amount of On-Site Well Water used for Irrigation= 16.00 in/yr/acreage of turf
3,966,423 gallons per year
3.97 MG/Year
0.011 MGD

Final Amount of water recharged = 131,827,237 gallons per year
131.83 MG/Year
0.361 MGD

Fractions in this column are shown rounded to 2 or 3 decimal places

Alternative 10

DATA - Enter a values for each parameter:

1. Fraction of land in turf	0.135	fraction
2. Fraction of land which is impervious	0.476	fraction
3. Wastewater Amount (STP Capacity)	100,000	gpd
4. Precipitation rate	49.90	inches/year
5. Irrigation rate (Turf only)	16.00	inches/year
6. Water recharged from turf	39.92	inches/year
7. Water recharged from natural land	23.92	inches/year
8. Evaporation from impervious surface	0.10	fraction
9. Runoff from impervious recharged	0.90	fraction
10. Water use per person	100	gallons/day
11. Nitrogen concentration in precip.	0.86	mg/l
12. Nitrogen concentration in water used	4.65	mg/l
13. Turf fertilization rate*	2.00	lbs/1000 sq ft/yr
14. Fraction of nitrogen leached from turf	0.35	fraction
15. Fraction of wastewater N lost as it traverses through groundwater	0.10	fraction
16. Wastewater fraction removed by STP-Nitrogen (Inc. Leaching Pools)	0.90	fraction
16a. Wastewater fraction removed by STP-Quantity	0.00	fraction
17. Nitrogen per person per year in wastewater	9.25	lbs/person/year
17a. Nitrogen conc. in influent wastewater for mixed-use developments	65	mg/l
18. Nitrogen removal rate of natural land	0.90	fraction

INTERMEDIATE CALCULATIONS

Site Area	74.98	acres
Fraction Natural Land	0.389	fraction
Population Density	13.34	people/acre
Nitrogen addition from precipitation	9.72	lbs/acre/year
Nitrogen addition from irrigation (potable water)	16.85	lbs/acre/year
N content of wastewater incl. water used	19.79	lbs/person/year

RESULTS:

	WATER RECHARGED		NITROGEN LEACHED	
	inches/yr	percent	lbs/acre/yr	percent
Turf	5.4	10.0%	5.4	16.4%
Natural Land	9.3	17.3%	0.4	1.2%
Wastewater	17.9	33.1%	23.0	69.7%
Impervious Runoff	21.4	39.6%	4.2	12.7%
TOTAL	54.0	100%	33.0	100%

Nitrogen concentration in recharge = 2.70 mg/l
6.779 lbs/day
2474.3 lbs/year
33.0 lbs/year/acre

Amount of water recharged = 109,937,895 gallons per year
109.94 MG/Year
0.30 MGD

Amount of On-Site Well Water used for Irrigation= 16.00 in/yr/acreage of turf
4,400,861 gallons per year
4.40 MG/Year
0.012 MGD

Final Amount of water recharged = 105,537,034 gallons per year
105.54 MG/Year
0.289 MGD

Reference 1

Reference No. 1: Suffolk County Department of Public Works – Division of Sanitation, “Non-Capital Project Design and Review Guidelines”, February 10th, 2017.

Only the relevant pages are printed here. The CD included in this section has the entire reference document.



COUNTY OF SUFFOLK



Steven Bellone
Suffolk County Executive

SUFFOLK COUNTY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SANITATION

DESIGN AND REVIEW GUIDELINES FOR
NON-COUNTY OWNED, NON-CAPITAL PROJECTS

(Revised: February 10th, 2017)

Note: Highlights were done by the applicant

Suffolk County Department of Public Works - Division of Sanitation
STP Engineering Report Review List – Non Capital Projects

DESIGN FLOW: Use SCDHS Design Flow Numbers.

1. Calculate Population Equivalent (PE) - 75 gpd/person
2. Calculate Peak Flow Factor (PF) as per Ten State Standard.

$$PF = \frac{18 + \sqrt{P}}{4 + \sqrt{P}} \quad P = \text{Population}/1000$$
3. PF is used to size Influent Pumps to plant from Influent Pump Station (minimum 2 Pumps).
4. Influent Suspended Solids Concentration for Residential Projects shall be 320 mg/l (0.20#/day/PE)
5. Influent BOD Concentration for Residential Projects shall be 272 mg/l (0.17#/day/PE).
6. Influent Total Nitrogen for Residential Projects shall be 65 mg/l.
7. For non-residential facilities consult department for influent Suspended Solids, influent BOD and influent Total Nitrogen concentrations.

EQ TANK:

Sized to hold minimum 20% of ADF (Average Daily Flow). Ideally sized to 25-30%. Divide tank into 2 sections with connecting pipe (min 12" diameter) with valve.

STATIC SCREEN:

Influent Pumps to pass flow thru screen situated above sludge holding tank. Screen must be rated to handle both influent pumps in operation. Screen must be all S.S. construction and screen openings must be 60 mil (0.06 in.)

SBR TANKS:

Minimum of 2. 3:1 length to width ration. Sized for 24 hr. retention at Low Water Level. LWL minimum 10' (ideally 12'). Minimum 18" Freeboard ht. – (ideally 2'). Cycle time min. 4.8 hrs. during normal operation for 5 cycles/day/tank. 4 hr. cycle time during storm flow condition for 6 cycles/day/tank. HWL to LWL depth determined by processing 1.7 ADF w/one tank out of service – 4 hr. cycle.

DECANTER WEIR:

Length determined by Volume needed to decant over 45 minute period (45 minutes is during storm mode – 60 minutes normal operation). Allowable rate over Weir is 20 cf/min/L ft. of length. Decant volume is HWL – LWL (usually between 3' to 5').

SLUDGE HOLDING TANKS:

Minimum 2, sized to hold sludge between 15 and 30 days (ideally 30 days). Sludge content in wasted sludge from SBR tanks is 1 to 2 % (usually 1 %).

1. Sludge wasting pumps sized to handle sludge produced/cycle within ten minutes.

Reference 2

Reference No. 2: The Suffolk County Department of Health Services General Guidance Memorandum #28 "Guidelines for Siting Proposed or Expanded Sewage Treatment Plants" issued on July 24, 2017.



COUNTY OF SUFFOLK

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STEVEN BELLONE
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

JAMES L. TOMARKEN, MD, MPH, MBA, MSW
COMMISSIONER

Revised: July 24, 2017

**SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
GENERAL GUIDANCE MEMORANDUM #28
GUIDELINES FOR SITING PROPOSED OR EXPANDED
SEWAGE TREATMENT PLANTS**

AUTHORITY

The Suffolk County Department of Health Services (“SCDHS,” the “Department”) performs siting reviews of proposed or expanded wastewater treatment plants to ensure conformance to Article 6, Sections 760-605 and 760-607, and Article 2, Section 760-221 of the Suffolk County Sanitary Code (SCSC). In addition, siting of these systems is necessary as stipulated in Section A3 of Appendix A, Section B3 of Appendix B, and Section XI of the Department’s “*Standards for Approval and Plans and Construction for Sewage Disposal Systems for Other Than Single Family Residences.*” Also, the Department performs siting reviews to help in protecting our water resources in accordance with Article 3, Section 760- 306, paragraphs 3 & 4 of the SCSC.

PURPOSE

This document updates and replaces *General Guidance Memorandum #1- Guidelines for Siting Sewage Treatment Plants and Other Disposal Systems*, issued by the Office of Water Resources, dated June 29, 2009.

This document has been prepared to provide guidance based upon outcomes of a long history of Sewage Treatment Plant (STP) siting reviews performed by SCDHS, and outlines the requirements necessary for siting proposed or expanded STPs to determine potential impacts to existing or planned drinking water supplies, and surface water features such as wetlands, lakes, streams and embayments. Potential impacts to neighboring properties that may occur as a result of elevated groundwater levels or flooding may also be evaluated as required.

General Guidance Memorandum #28

Page 1 of 4



♦ Division of Environmental Quality ♦
360 Yaphank Avenue - Suite 2C ~ Yaphank, NY 11980
Phone: 631. 852.5700 - Fax: 631. 852.5755

GUIDANCE

All proposed or expanded STPs will require a separate siting review by the SCDHS. The Department will continue to coordinate reviews with the appropriate public water suppliers that may be affected, and review potential impacts to private drinking water wells and surface water features as indicated above. Alternatives to the construction of on-site STPs that should always be explored include connection of the project to a municipal sewer district or to an existing off-site treatment facility. When performing siting reviews, the Department will evaluate potential impacts to existing or planned public water supply wells and private drinking water supply wells from STPs using a variety of resources. These may include, but not be limited to, Source Water Assessment data, hydrogeological reports and historical water quality results. The Department will also refer to the latest versions of applicable standards including, but not limited to, Appendices 5-B and 5-D of the New York State Sanitary Code. In addition, potential impacts should be evaluated as part of the Environmental Impact Statement (EIS) as part of the SEQRA process. The Department may require the applicant to supply a groundwater transport model analysis as part of a hydrogeologic evaluation for the project depending on the amount of sewage flow and proximity to existing and planned drinking water wells or surface waters.

Listed below is additional guidance that may be used when siting proposed or expanded STPs.

Drinking Water Supplies

- STP discharges shall not be located within the 0-2 year groundwater contributing areas to public supply wells, as identified as part of the 2007 source water assessments prepared by Camp Dresser & McKee Environmental Consultants (CDM) or more recent hydrogeologic evaluations and source water assessments where applicable. A 0-2 year travel time was determined as part of the NYSDOH's sensitivity analysis of microbial contaminants performed for the 2003 Source Water Assessment Plan (SWAP).
- Based on the potential for drinking water supplies to be impaired by emerging contaminants such as pharmaceutical and personal care products, including 1,4-dioxane, the Department has historically strongly discouraged STP discharges from being located within the 2-5 year groundwater contributing area to public supply wells.
- The siting of STP discharges within the 2-50 year groundwater contributing areas to public supply wells should be minimized to every extent feasible. However, when an STP discharge is located within the 2-50 year travel time, the applicant shall provide an advanced treatment process that consistently reduces the total nitrogen concentration to the maximum practical extent. Also, the SPDES permit conditions issued for these systems shall require the nitrogen discharge goal be significantly lower than 10 mg/l. Tertiary treatment to address potential impacts from other contaminants and a performance bond may also be required.
- For STP discharges within the 2-50 year groundwater contributing areas to public supply wells, the applicant shall demonstrate that the nitrogen mass loading is significantly reduced by the proposed project, as compared with the mass loading that can occur with a development that complies with the density requirements of Article 6 of the SCSC. A total nitrogen concentration of 50 mg/l may be used when calculating the equivalent mass loadings.

- In accordance with Appendix 5-D of the New York State Sanitary Code, STP discharges shall not be located within 300 feet of a public water supply well.
- Separation distances between STP discharges and public water supply wells or their groundwater contributing areas shall be maximized to every extent practicable.
- In accordance with Appendix 5-B of the New York State Sanitary Code, STP discharges shall not be located within 200 feet of a private water supply well.
- When it is determined that private drinking water supplies may be impacted by the proposed project, the department may require that the applicant offer to connect affected dwellings served with private wells to a public water supply (this may necessitate the extension of public water to affected properties).

Surface Waters

- The siting of STP discharges within 0-25 year groundwater contributing areas to sensitive surface waters should be minimized to the extent feasible. However, when an STP is located within this travel time, the applicant shall provide an advanced treatment process that consistently reduces the total nitrogen concentration to the maximum practical extent. Also, the SPDES permit conditions issued for these systems shall require the nitrogen discharge goal be significantly lower than 10 mg/l.
- For STP discharges within 0-25 year groundwater contributing areas to sensitive surface waters, the applicant shall demonstrate that the nitrogen mass loading is significantly reduced by the proposed project, as compared with the mass loading that can occur with a development that complies with the density requirements of Article 6 of the SCSC. A total nitrogen concentration of 50 mg/l may be used when calculating the equivalent mass loadings.

Potential Impacts to Neighboring Properties

- The Department may require the applicant to evaluate potential impacts to neighboring properties that may result from the construction and operation of a new STP. (e.g. flooding that may occur from elevated groundwater conditions). For these situations, the submission of a supplemental detailed technical report prepared by a design professional may be necessary.

PROCEDURE

Submission of Preliminary Plans

- All design professionals are encouraged to submit preliminary plans that show the location of treatment and discharge facilities for any proposed or expanded STP prior to the environmental review process in order to ascertain general water resource concerns. Once the Department has reviewed the preliminary plans, additional information and/or submittals may be necessary to address any comments; it is also possible that an alternative site or revised proposal will be recommended prior to the SEQRA process. Submittal of preliminary proposals may be made prior to the submission of a formal application to the Department's Office of Wastewater Management. A comprehensive engineering report is not typically required for these preliminary submissions; however, a sufficient amount of information must be provided to the department for our review and evaluation. This includes:
 - The proposed design flow and overall description of the treatment process
 - A detailed site plan and layout of the plant and disposal facilities
 - Surface contours, grading and elevations
 - Soils borings, and groundwater elevations
 - The nearest locations of the nearest public water supply wells and/or surface waters
 - The location of any private wells within 500 feet of the proposed STP

EXCEPTIONS

Siting evaluations are performed on a case-by-case, site specific basis, and include numerous complex variables, such as hydrogeology, soil conditions, projected sewage flow rates and existing groundwater quality. As such, the information listed above is for general guidance purposes only. In certain situations, alternative approaches and guidelines may be necessary to protect environmental health. In these cases, the Department will provide the rationale in writing for any variations to the above guidelines.

EFFECTIVE

This document is for guidance purposes only and becomes effective for all applications received after the date of this memorandum. It should apply to most cases, but it is not a standard and is not meant to substitute for the discretion of the reviewer.

Issued by: *Signature on file*
Craig Knepper, PE, Chief
Office of Wastewater Management

Reference 3A

*Reference No. 3A: "2017 Annual Technology Review of Innovative/Alternative OWTS"
December 2018.*

*Only the relevant pages are printed here. The CD included in this section has the entire
reference document.*



2017 ANNUAL TECHNOLOGY REVIEW OF INNOVATIVE / ALTERNATIVE OWTS

Prepared for the

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION



Innovative & Alternative Onsite Wastewater Treatment Systems
NYSDEC Grant Contract No.: DEC01-C00366GG-3350000 and DEC01-C00058GG-
3350000



Stony Brook
University

NYS Center for
Clean Water Technology

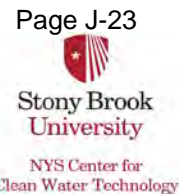
Version Dated: December 31, 2018

Suffolk County Department of Health Services
360 Yaphank Avenue
Yaphank, NY, 11980

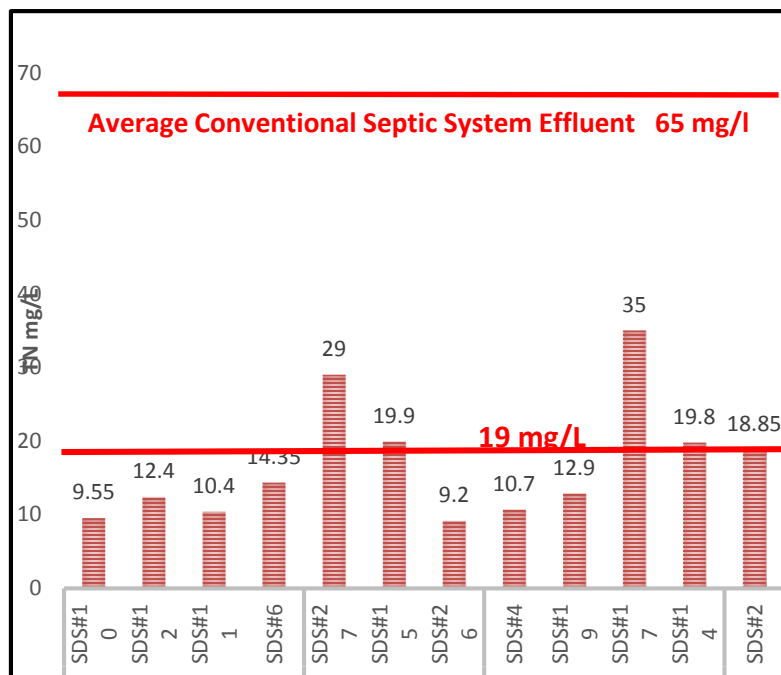
New York State Center for Clean Water Technology at Stony Brook University
Advanced Energy Research and Technology Center (AERTC)
1000 Innovation Road, Room 100
Stony Brook, NY 11794-6044

Reclaim  Our Water

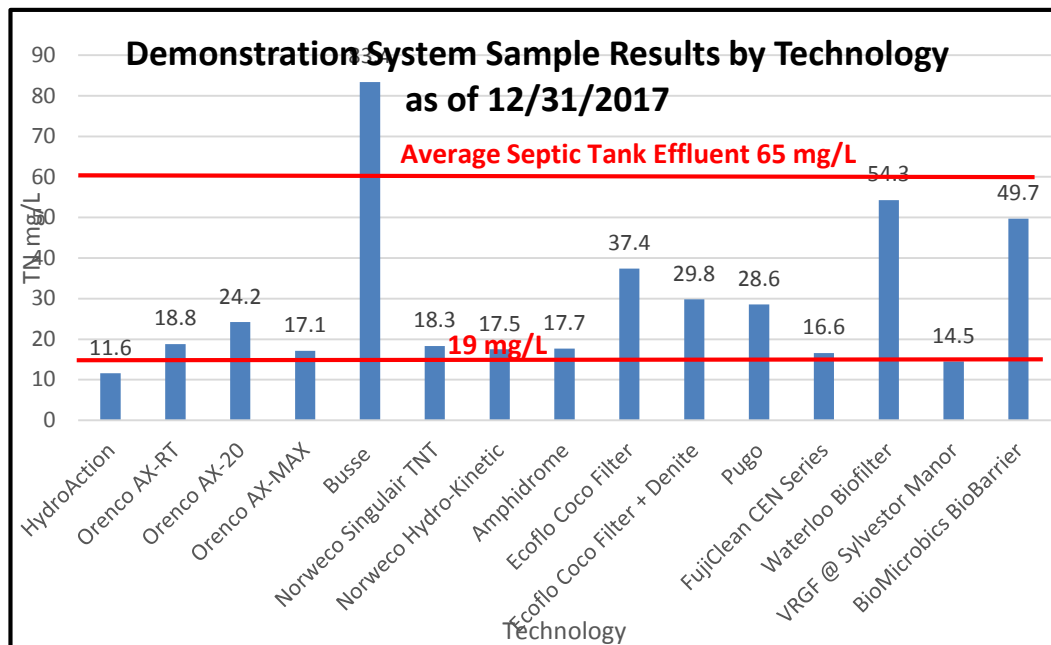
2017 Annual Technology Review
 Innovative & Alternative Onsite Wastewater Treatment Systems



This figure provides a summary of the provisionally approved demonstration systems, by site, as of December 31, 2017.



The following figure provides a summary of all demonstration systems as of December 31, 2017.



CAMERON ENGINEERING

Page J-24

Reference 3B

Reference No. 3B: E-mail from Mr. Justin Jobin, Environmental Projects Coordinator dated January 14, 2019



Note: Highlights were done by the applicant

Mark Wagner

From: Jobin, Justin <Justin.Jobin@suffolkcountyny.gov>
Sent: Monday, January 14, 2019 5:11 PM
To: Mark Wagner
Cc: Sohngen, John; Adhya, Tanima
Subject: RE: NYSDEC 2017 I/A Report

Hi Mark,

We believe 65 mg/L is a good representation of effluent from a standard system. Obviously septic system effluent is highly variable, in our Demo program we've seen ranges from 40 mg/L to over 140 mg/L. 65 mg/L is a number used by EPA and George Loomis from the University of Rhode Island.

I hope this helps
 -Justin

 Justin P. Jobin

Reclaim Our Water

Environmental Projects Coordinator
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From: Mark Wagner [mailto:MWagner@cameronengineering.com]
Sent: Monday, January 14, 2019 2:32 PM
To: Jobin, Justin <Justin.Jobin@suffolkcountyny.gov>
Cc: Sohngen, John <John.Sohngen@suffolkcountyny.gov>; Adhya, Tanima <Tanima.Adhya@suffolkcountyny.gov>
Subject: NYSDEC 2017 I/A Report

Hi Justin,

I recently had a chance to review the above document on the status of I/A program in Suffolk County. What caught my attention was that the average nitrogen concentration exiting OWTS that were sampled averaged 65 mg/L of total nitrogen. I have been using 50 mg/L as an estimated concentration from OWTS. If the higher value is more representative, then the overall reduction on a percentage basis improves at 19 mg/L for approved I/A systems. The question I present here is, does the Department believe the 65 mg/L is valid and if so, can it be used for making comparisons on total loadings from existing systems and potential reduction of such loadings going to an I/A system?

Best regards,
 Mark

Mark Wagner, C.E.P., LEED AP
 Partner

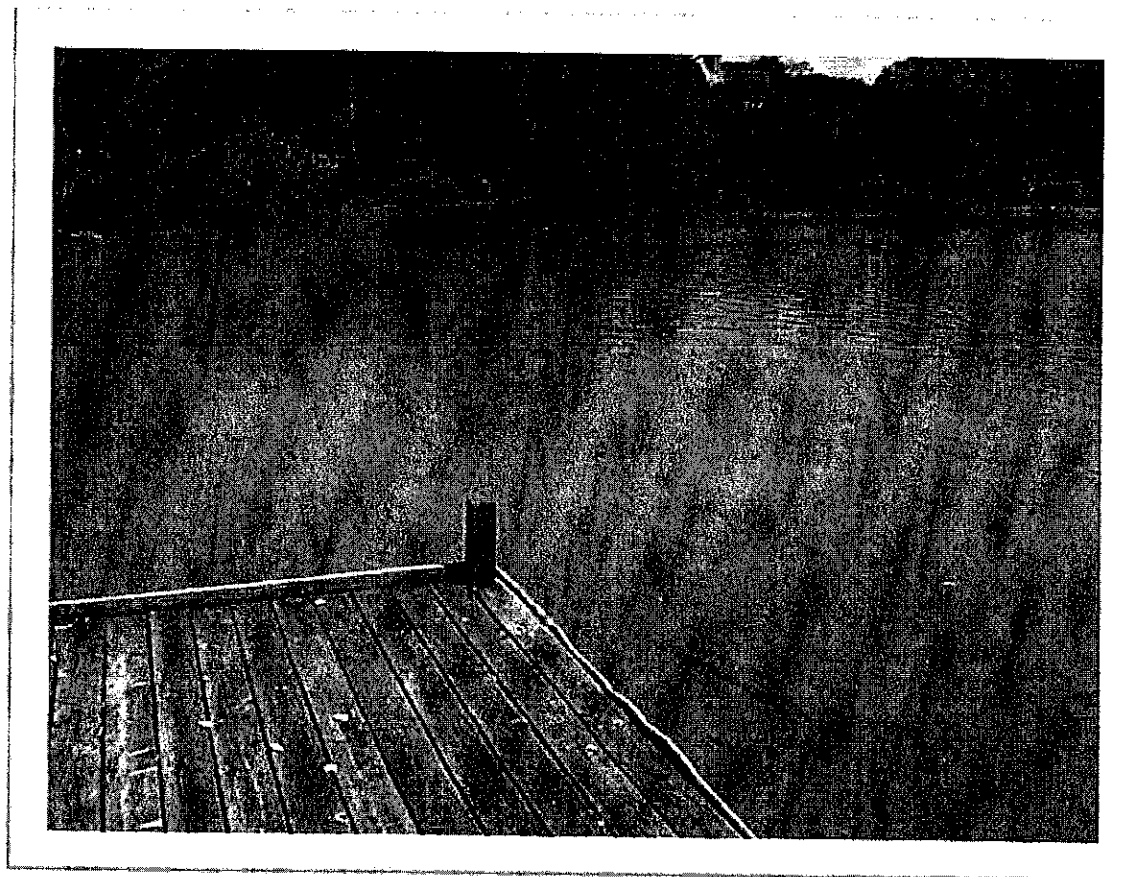
Reference 4

Reference No. 4: "Quantifying Nitrogen Loading from Southampton Village to Surrounding Water Bodies and Their Mitigation by Creating a Sewer District" February 2017, Christopher J. Goble, PhD, Stony Brook University School of Marine and Atmospheric Sciences.

Only the relevant pages are printed here. The CD included in this section has the entire reference document.



**QUANTIFYING NITROGEN LOADING TO FROM SOUTHAMPTON
VILLAGE TO SURROUNDING WATER BODIES AND THEIR MITIGATION
BY CREATING A SEWER DISTRICT**



CHRISTOPHER J. GOBLER, PHD

FEBRUARY, 2017



**Stony Brook University
School of Marine and
Atmospheric Sciences**

important and new consensus facts have been established. First, the existing cesspools and septic systems across Suffolk County have been found to be releasing significantly more nitrogen than had previously been thought. For example, in the original NLM model developed by Bowen et al., (2007) it was assumed that there was a 35% reduction in nitrogen within septic tanks, within leaching pits, and as groundwater traverses through the aquifer. While subsequent studies on Long Island began to reduce the removal rates for each step, LINAP has determined that the loss of nitrogen from each of these processes is between 5 and 10%, making wastewater a significantly stronger nitrogen source within the ecosystem (Figure 17 - 19). Another major change initiated by LINAP has been with regard to lawns. While NLM originally assumed lawns allowed 40% of nitrogen applied to enter groundwater, LINAP has compiled enough information to feel confident that the transmission rate is 20% (Table 3). Finally, although NLM had assumed there would be a large vadose zone removal of nitrogen applied to land surfaces, LINAP has concluded such a process does not exist on Long Island and thus it has been eliminated. This project used the most up-to-date information available regarding nitrogen loading on Long Island as developed by LINAP. As a result, the total nitrogen loads are higher since nitrogen is not being removed within the aquifer at the rates previously assumed but rather at much lower rates and more nitrogen is being transmitted by septic systems and lawns to groundwater. These changes were slightly larger for wastewater than for fertilizer, making the later process more important. Regardless, the findings of this study are generally consistent with recent studies that have found that wastewater is usually the largest source of nitrogen to a given watershed, although fertilizer can sometimes be larger (Kinney and Valiela, 2011; Lloyd, 2014, 2016; Gobler and Stinnette, 2016) as was the case for Wickapogue Pond.

Task 3. Use the dynamic model quantify how connecting different regions of Southampton Village to a sewage treatment plant or and/or alternative septic systems will alter nitrogen loading rates to Lake Agawam.

For task 3, the nitrogen loading model developed for the Village of Southampton was modified to consider the connection of a specific region of the downtown region to the sewage treatment plant to be built on Windmill Lane within the Lake Agawam watershed (Figure 16). When considering future wastewater loading scenarios, beyond the sewage treatment plant, the fate of on-site septic systems outside the sewer district is unclear. Given the recent passage of

Reference 5

Reference No. 5: "Office of Wastewater Management – Report on the Sewage Treatment Plants of Suffolk County 2016 Performance Evaluation", prepared by Adhya & Olsen (November 2017).

Only the relevant pages are printed here. The CD included in this section has the entire reference document.



COUNTY OF SUFFOLK



Steven Bellone
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES
JAMES L. TOMARKEN, MD, MSW, MPH, MBA, FRCPC, FACP
Commissioner

Christina Capobianco
Deputy Commissioner

Walter Dawydiak, P.E.
Director
Division of Environmental Quality

Office of Wastewater Management
Report on the Sewage Treatment Plants of Suffolk County
2016 Performance Evaluation

Craig Knepper, P.E., Chief
Office of Wastewater Management

Prepared by: Tanima Adhya, P.E. & Charles Olsen



November 2017

Note: Highlights were done by the applicant

Page J-31

Executive Summary

The performance level of the sewage treatment plants (STPs) in Suffolk County attained a long-awaited milestone in 2016. The total nitrogen discharged from all low risk STPs was below 6 mg/l with an overall compliance rate of greater than 90%. The average total nitrogen of all the 161 year round tertiary facilities that were considered low risk was 5.3 mg/l with a 98.77% overall compliance rate. The Appendix "A" plants (STPs designed to treat a flow of less than 15,000 gallons per day) performed equally as well. The average total nitrogen discharged from the Appendix "A" plants in steady state was 5.9 mg/l with a 95% overall compliance rate.

The average total nitrogen discharged from all the 171 tertiary STPs including the high risk and the seasonal plants that were in steady state was 5.95 mg/l with a 95.3% compliance rate. The average total nitrogen discharged from all the 178 tertiary STPs including the "Not in Steady State" plants was 6.25 mg/l with a 93.26% compliance rate. This is significantly below 10 mg/l which is typically the requirement of the New York State Department of Environmental Conservation (NYSDEC) and the Suffolk County Department of Health Services (Department). These numbers indicate that the vast majority of the STPs in the County achieved the efficiency necessary to consistently operate at the desired performance level. The aforementioned data excluded one tertiary plant (which processed industrial waste) as it was operating under an Order on Consent with NYSDEC.

The Department of Health Services' Sewage Treatment Plant Bureau, under dedicated authority by NYSDEC, inspects and oversees all the STPs in the County. The plants operate under a State Pollutant Discharge Elimination System (SPDES) Permit issued by NYSDEC. Municipal plants are enforced by NYSDEC and privately owned plants are enforced by the Department. The total number of treatment plants increased to 197 in 2016, which included 179 "tertiary" plants and 18 "secondary" plants. "Tertiary" plants are capable of reducing BOD₅ (Biochemical Oxygen Demand), SS (Total Suspended Solids), and TN (Total Nitrogen) and "secondary" plants are capable of reducing BOD₅ and SS only. Of the existing tertiary facilities, one plant treated industrial waste and 7 plants were newly constructed which did not attain the adequate biological balances necessary for the effective treatment of wastewater and were classified as "not in steady-state". Therefore, a total of 171 tertiary plants were considered in the performance average which included 3 "seasonal" plants.

SCDHS has been requiring the older plants that are underperforming and/or lacking nitrogen removal capability to undergo major renovations or replacement by a new treatment plant. In 2016, 7 tertiary plants, on Order on Consent with the Department, were under construction for upgrades and/or repairs after being chronically non-compliant with their SPDES Permits. Twelve of the eighteen legacy secondary plants were in the process of transition to tertiary treatments with the addition of a nitrogen removal system. Three secondary plants were converted to tertiary plants. Renovations on a significant number of the tertiary plants were completed and many plants were modified per the department's requirements in order to facilitate process optimization during 2016. Most of the secondary facilities that discharge to groundwater are expected to complete their upgrades by the end of 2018.

The life expectancy of a sewage treatment plant is approximately 30 years. There are many plants in Suffolk County that have been operating in the range of 25 to 40 years. Therefore, a few plants always undergo repairs and/or major renovations. During construction it is expected that the existing plants' effluent quality would deviate from their SPDES Permit limitations. On the other hand, after commencing operations, it takes some time for newly constructed or renovated plants to attain the optimum biological conditions necessary to induce the required treatment level. It is expected that those plants may not meet

their SPDES Permit requirements consistently for a certain period of time. So, for that time period the new plants are labeled as “not in steady-state”.

During 2015, the Department, in coordination with NYSDEC, started formulating advanced enforcements and the task was completed in 2016. One of the assignments was the modification of SPDES Permit requirements in accordance with the STP operating conditions. The intent is to cooperate with the treatment plant owners during the period of construction and/or repair of their facilities by assigning temporary permit conditions in order to streamline the permit violations and keep track of the non-compliance status more efficiently. For example, newly constructed “not in steady-state” facilities would be issued a temporary limit equivalent to their properties’ as-of-right density development and the permit would remain effective until the facility’s daily flow attains 50% of the design flow, at which time, a permanent permit would be issued to the facilities. In the case of upgrade or major repairs or replacement of legacy plants, which may disrupt normal daily plant operations, the plant owners would be required to file an Order on Consent with the Department providing a time line to complete the required construction. Based on the timeline, the Department would assign an effluent total nitrogen limit, attainable under the construction conditions. The limit would remain in effect three months after the completion of construction in order to cooperate with the plant owners by preventing repeated violations of his SPDES Permit during the upgrade and after construction for the plant to regain the required biological balances.

The inspection schedule implemented in 2014 was followed in 2016. Well operated plants complying with their SPDES Permit were inspected bi-annually and high risk plants were inspected quarterly. The facilities’ performance levels were streamlined in accordance with their color coded categories following 2014 methods.

In 2016 a total of 507 inspections were performed and samples were collected at the time of inspections. The facilities were grouped in color coded categories based upon their ownership, level of performance and physical conditions. The analysis reports of the samples collected by the Department staff along with the NYSDEC Discharge Monitoring Reports (DMR) were evaluated.

TABLE I provides an account of the high risk facilities recorded by the department every year since 2011. Since 2012, the Department has been following the modified inspection program. The number of plants in the High Risk category in 2016 reduced about 57% compared to 2012. A gradual improvement in the overall performance level during the past six years can be seen on the table, substantiating the fact that the new risk based program and enhanced enforcement have been a success. Twelve High Risk plants were moved to the Low Risk category during the year.

TABLE I: Key Performance Indicators

	2011	2012	2013	2014	2015	2016
Number of High Risk Facilities	N/A	60	50	50	38	26
Total Nitrogen (All Tertiary STPs in Steady State) in mg/l	9.9	8.6	8.7	7.8	7.6	5.95
Percent of Tertiary STPs meeting NYS Discharge limits for Total Nitrogen (All Tertiary STPs in Steady State)	71.0%	79.6%	82.8%	85.0%	85.8%	95.3%

Note: Highlights were done by the applicant

TABLE II and III represent the statistics of the facilities in accordance with their color coded categories as well as their performance. As it can be seen on both tables, the overall averages of the effluent parameters were well below the SPDES limits:

TABLE II: Statistics of Tertiary Plants

Color	Owner-ship	Risk Level	No. of Plants		Average TN mg/l	Average TN mg/l (Low Risk Plants)	Average TN mg/l (Plants in Steady State)	Overall Average TN mg/l (includes NISS data)
			Total	In TN Average				
Blue	Municipal	Low	34	33*	4.6	5.3	5.95	6.25
Green	Private	Low	128	128	5.5			
Red	Private	High	14	7**	19.5	--		
Orange	Private	Seasonal	3	3	8.5	--		
Appendix "A":	Either	Low	44	40***	5.9	--	5.9	6.9

* The number excludes **one** industrial plant under Order on Consent (OOC) with NYSDEC.

** The number excludes **seven** plants not-in-steady-state (NISS) with a yearly average of 13.6 mg/l of TN.

*** The Appendix "A" plant data are already included in the High and Low Risk category. The data are shown separately for the purpose of providing their performance status. The Average TN excludes **four** plants not-in-steady-state with a yearly average of 16.9 mg/l of TN.

The average total nitrogen concentration for all the 171 tertiary treatment plants operating in steady state condition including the plants undergoing major renovations and the seasonal plants was **5.95 mg/l**, less than that of the previous years. Further, the average total nitrogen for all the 161 "Low Risk" plants was **only 5.3 mg/l** and the average total nitrogen for all the 40 Appendix "A" plants operating in steady state was **5.9 mg/l**, well below their SPDES Permit limit of 10 mg/l.

TABLE III: Statistics of Secondary Plants

Color	Blue	Green	Red	Orange*	Overall Average BOD ₅ , mg/l (w/o seasonal plants)	Overall Average TSS, mg/l (w/o seasonal plants)
Ownership	Municipal	Private	Private	Private		
Risk Level	Low	Low	High	High		
No. of Plants	5	1	12	2	15.5	22.0
Average BOD ₅ , mg/l	7.3	5.6	19.7	5.3		
Average TSS, mg/l	18.2	9.9	24.6	10.1		

* These plants have already been included with TABLE II. One seasonal plant doesn't have secondary limits

TABLE III indicates that the overall average BOD₅ and SS of all the 18 secondary plants (excluding the seasonal plants) operating in steady state condition was 15.5 mg/l and 22.0 mg/l respectively, within NYSDEC permit limits of 30 mg/l. All the high risk (Red) facilities were under Order on Consent with the Department requiring an upgrade or replacement of the plants to provide tertiary treatment capabilities.

Reference 6

Reference No. 6: New York State Department of Environmental Conservation, "NYS Design Standards for Intermediate Sized Wastewater Treatment Systems" (March 5, 2014).

Only the relevant pages are printed here. The CD included in this section has the entire reference document.



**NEW YORK STATE
DESIGN STANDARDS FOR
INTERMEDIATE SIZED
WASTEWATER TREATMENT SYSTEMS
MARCH 5, 2014**



**New York State
Department of Environmental Conservation
Division of Water
625 Broadway
Albany, New York 12233-3505**



Andrew M. Cuomo, Governor

Joe Martens, Commissioner

D.12 Source Separation and Graywater Irrigation Systems

Graywater is defined as wastewater discharged from clothes washers, bathtubs, showers, dishwashers, and sinks (including kitchen sinks without garbage disposal units), but excludes “blackwater,” fats, oils and greases (FOG), and industrial wastewater containing toxic or hazardous materials. For graywater irrigation systems, discharged wastewater should be restricted to wastewater with low levels of pathogens. Graywater irrigation systems will require NYSDEC approval before discharge is allowed.

Residential graywater treatment systems with design flows under 1,000 gpd should be designed according to Appendix 75-A, and approved by a local health unit (county or district).

Graywater Irrigation System Description:

The following descriptions pertain to graywater irrigation systems discharging to subsurface soil treatment systems on-site. Primary applications are where there is facility management and maintenance and some control over fixture usage.

Graywater, because of its low nitrogen (less than 10 percent of typical sanitary wastewater stream) and other pollutant concentrations (typically 50 percent of the BOD and 25 percent of the TSS found in sanitary wastewater) can be assimilated biologically within the topsoil (top 2 to 10 inches) without pre-treatment using subsurface drip or dosed irrigation.

Graywater irrigation systems are used most frequently in areas trying to conserve fresh water. They are also used in situations where there is a desire to reduce hydraulic and pollutant loading of existing on-site sewage treatment systems to increase system life.

Graywater irrigation systems should not be used at facilities discharging wastewater containing higher concentrations of pathogens from the washing of heavily soiled or potentially infectious laundry, such as diapers or similarly soiled garments.

Rinsing or discarding any hazardous chemicals, synthetic organics or petroleum byproducts from oils, paints, and solvents into a graywater irrigation system is not allowed, and facilities should have signage to ensure proper disposal or treatment of any industrial wastes.

Subsurface drip or dosed irrigation to shallow topsoil is the preferred design for a subsurface graywater

*Draft Environmental Impact Statement
Map of Flowerfield Subdivision Application*

November 2019

Appendix K:
Visual Simulation

Gyrodyne LLC Subdivision

The Flowerfield property has ±0.51 miles of road frontage along Route 25A (North Country Road), a designated historic corridor also known as 'The Washington Spy Trail', as described in Section 16 (Cultural Resources, starting on page 16-1).

The existing conditions of the Rt. 25A (North Country Road) corridor along the Flowerfield property would be expressed as having a pastoral character with a combination of farmland along much of the westerly side of Route 25A (*note: farmland transitions to single family residences north of Shep Jones Lane*) and the heavily vegetated buffer along the Flowerfield property (easterly side of Route 25A). The visual analysis of this corridor included an inventory of existing conditions to assess the potential impact associated with the proposed development.

The road corridor was modeled to simulate the experience of a user (meaning, a driver, a bicyclist, or a pedestrian). The methodology entailed a visual analysis performed by identifying different viewsheds on the road corridor. The viewsheds were photographed and analyzed in winter-early spring months before the trees leaved, and again in summer months after the leafing occurred. The analysis was based on representation of views into the site while driving/walking/bicycling on the roadway in both directions.

Generally, the plant overgrowth and rows of evergreen tree plantings along the Route 25A corridor and Mills Pond Road screen the views into the site. Select sections had some gaps within the planting, providing partial views into the property. The select segments were identified and a further analysis was done to represent the views when a bicyclist, pedestrian, or passenger in a vehicle is viewing the site from the opposite side of the road, looking at a right angle or a 45° angle.

Additional tangential views were studied at the proposed campus driveway on Route 25A (View E), where the existing roadscape will be interrupted for approximately 120 linear feet to accommodate the proposed access.

Based on these views, the proposed building structures were superimposed as simplified architectural massing models, followed by a comparative analysis of existing conditions and mitigated built conditions. Mitigation shown is in the form of additional native deciduous and evergreen plantings in the buffer to maintain the current rural character of the road corridor and provide sufficient screening of the development from the adjacent areas. At the proposed campus driveway, the intent is for the architectural elements to be contextually sensitive, such as proposed campus signage envisioned as natural stone material to blend into the landscape.

This Appendix is organized according to the views at each viewpoint, A through H (please see the key figure on the following page), with each viewpoint shown in the Winter, followed by a Summer view.

NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.

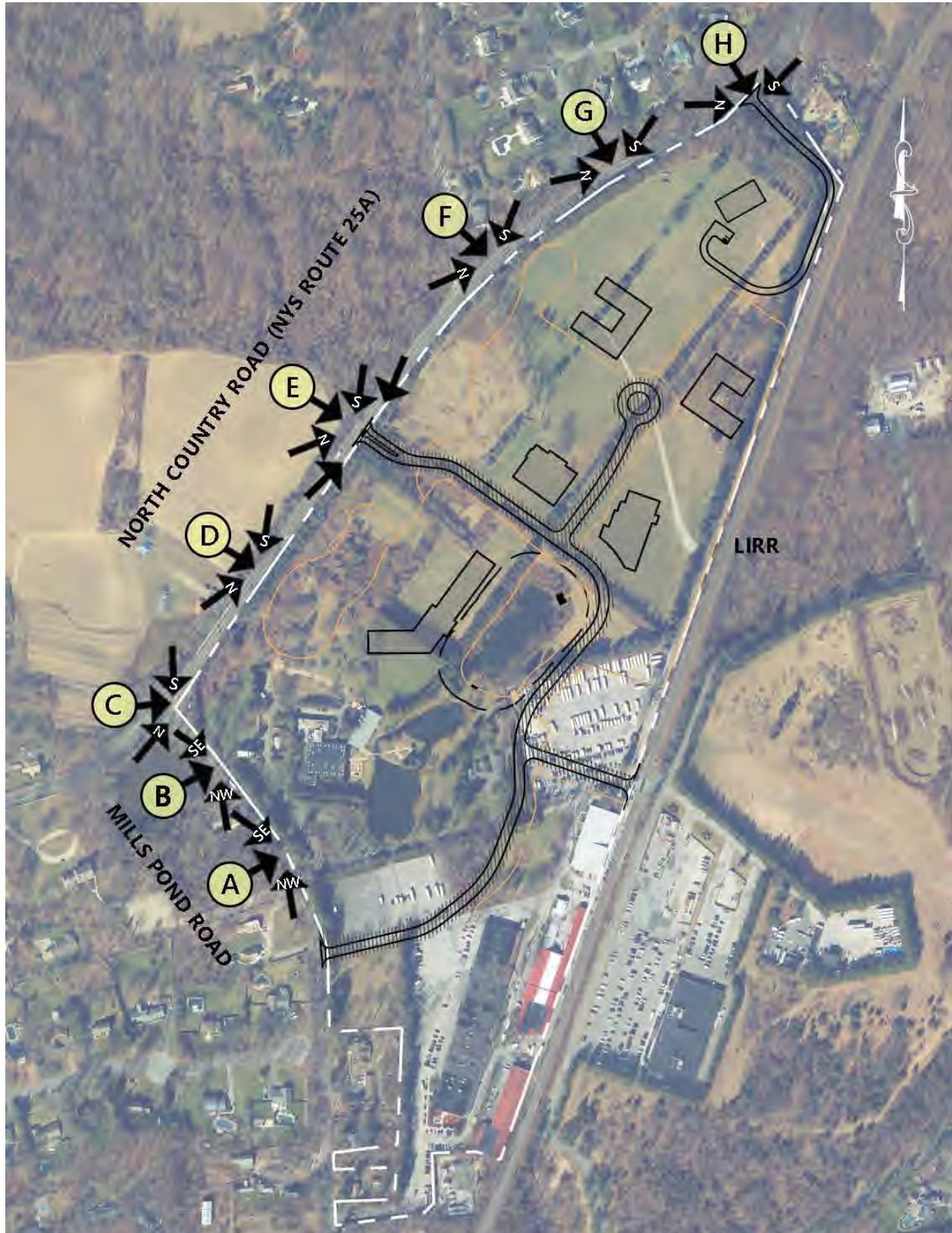


Gyrodyne LLC Subdivision

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Gyrodyne LLC Subdivision



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



Overall Key Map

Gyrodyne LLC Subdivision

Winter

View illustrates aesthetic character of Mills Pond Road while traveling North-West towards Rt. 25, with grass shoulder, fence line and existing mature evergreens with limited views below into the property. The winter and summer foliage conditions are similar (refer to Summer View) due to the presence of mainly mature evergreen trees and managed landscape in the area.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
 (Traveling Northwest Towards Route 25A)
 Viewshed (A) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in winter or summer (refer to Summer View).



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
 (Traveling Northwest Towards Route 25A)
 Viewshed (A) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates aesthetic character of Mills Pond Road while traveling North-West towards Rt. 25A, with grass shoulder, fence line and existing mature evergreens with limited views below into the property. The winter and summer foliage conditions are similar (refer to Winter View) due to the presence of mainly mature evergreen trees and managed landscape in the area.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
 (Traveling Northwest Towards Route 25A)
 Viewshed (A) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in winter or summer (refer to Winter View).



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
(Traveling Northwest Towards Route 25A)
Viewshed (A) – Built Conditions

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character of Mills Pond Road while traveling South-East from Rt. 25A with grass shoulder, fence line and existing mature evergreens with limited view below the branching into the property. The winter and summer foliage conditions are similar (refer to Summer View) due to the presence of mainly mature evergreen trees with managed landscape in the area.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
 (Traveling Southeast From Route 25A)
 Viewshed (A) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in winter or summer (refer to Summer View).



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
 (Traveling Southeast From Route 25A)
 Viewshed (A) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character of Mills Pond Road while traveling South-East from Rt. 25A with grass shoulder, fence line and existing mature evergreens with limited view below the branching into the property. The winter and summer foliage conditions are similar (refer to Winter View) due to the presence of mainly mature evergreen trees with managed landscape in the area.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
(Traveling Southeast From Route 25A)
Viewshed (A) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in winter or summer (refer to Winter View).



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
(Traveling Southeast From Route 25A)
Viewshed (A) – Built Conditions

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character of Mills Pond Road and the project site looking in perpendicular from the shoulder across the street. There is a clear view of the fence line and existing mature evergreens with limited view below the branching into the property. The winter and summer foliage conditions are similar (refer to Summer View) due to the presence of mainly mature evergreen trees with managed landscape in the area.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
Viewshed (A) – Existing View at 90° inside

Gyrodyne LLC Subdivision

Winter

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in winter or summer (refer to Summer View).



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
Viewshed (A) – Built Conditions at 90° inside

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character of Mills Pond Road and the project site looking in perpendicular from the shoulder across the street. There is a clear view of the fence line and existing mature evergreens with limited view below the branching into the property. The winter and summer foliage conditions are similar (refer to Winter View) due to the presence of mainly mature evergreen trees with managed landscape in the area.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
Viewshed (A) – Existing View at 90° inside

Gyrodyne LLC Subdivision

Summer

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in winter or summer (refer to Winter View).



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
Viewshed (A) – Built Conditions at 90° inside

Gyrodyne LLC Subdivision

Winter

View illustrates the section of Mills Pond Road close to intersection of Rt. 25A. The aesthetic character remains similar to Viewshed A with a grass shoulder, fence line, existing mature evergreen trees. An existing white building about 45 feet from the road is partially visible in both winter and summer months (refer to Summer View) under the tree branching.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
 (Traveling Northwest Towards Route 25A)
 Viewshed (B) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in winter.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
 (Traveling Northwest Towards Route 25A)
 Viewshed (B) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the section of Mills Pond Road close to intersection of Rt. 25A. The aesthetic character remains similar to Viewshed A with a grass shoulder, fence line, existing mature evergreen trees. An existing white building, about 45 feet from the road is partially visible in both winter and summer months (refer to Winter View) under the tree branching. Summer foliage is observed to be denser than winter, with the deciduous undergrowth.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
(Traveling Northwest Towards Route 25A)
Viewshed (B) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in summer.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
 (Traveling Northwest Towards Route 25A)
 Viewshed (B) – Built Conditions

Gyrodyne LLC Subdivision

Winter

View illustrates the section of Mills Pond Road close to intersection of Rt. 25A while traveling south-east. The aesthetic character remains similar to Viewshed A with a grass shoulder, fence line, existing mature evergreen trees. An existing white building about 45 feet from the road is visible in both winter and summer months (refer to Summer View) under the tree branching.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
(Traveling Southeast From Route 25A)

Viewshed (B) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in winter.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
 (Traveling Southeast From Route 25A)
 Viewshed (B) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the section of Mills Pond Road close to intersection of Rt. 25A while traveling south-east. The aesthetic character remains similar to Viewshed A with a grass shoulder, fence line, existing mature evergreen trees. An existing white building about 45 feet from the road is partially visible in both winter and summer months (refer to Winter View) under the tree branching. Summer foliage is observed to be denser with the deciduous undergrowth.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
(Traveling Southeast From Route 25A)

Viewshed (B) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in summer.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
 (Traveling Southeast From Route 25A)
 Viewshed (B) – Built Conditions

Gyrodyne LLC Subdivision

Winter

View illustrates the section of Mills Pond Road close to intersection of Rt. 25A while looking perpendicular inside the project site. The aesthetic character remains similar to Viewshed A with a grass shoulder, fence line, existing mature evergreen trees. An existing white building about 45 feet from the road is visible in both winter and summer months (refer to Summer View) under the tree branching.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
Viewshed (B) – Existing View at 90° inside

Gyrodyne LLC Subdivision

Winter

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in winter or summer (refer to Summer View).



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
Viewshed (B) – Built Conditions at 90° inside

Gyrodyne LLC Subdivision

Summer

View illustrates the section of Mills Pond Road close to intersection of Rt. 25A while looking perpendicular inside the project site. The aesthetic character remains similar to Viewshed A with a grass shoulder, fence line, existing mature evergreen trees. An existing white building about 45 feet from the road is visible in both winter and summer months (refer to Winter View) under the tree branching. Summer foliage is observed to be denser with the deciduous undergrowth.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
Viewshed (B) – Existing View at 90° inside

Gyrodyne LLC Subdivision

Summer

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in winter or summer (refer to Winter View).



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from Mills Pond Road
Viewshed (B) – Built Conditions at 90° inside

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the intersection of Mills Pond Road and Rt. 25A with grass lawn, low planting in the foreground, Flowerfield signage, and a mix of evergreen and deciduous trees behind the signage. There is a very limited view into the property in the winter months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed © – Existing Conditions

Gyrodyne LLC Subdivision

Winter

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in winter.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)
Viewshed (C) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the intersection of Mills Pond Road and Rt. 25A with grass lawn, low planting in the foreground, Flowerfield signage, and a mix of evergreen and deciduous trees behind the signage. There is a limited view into the property in the winter months, but the view in the summer months is negligible due to the dense overgrowth.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (C) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in summer.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
 (Traveling North On Route 25A)
 Viewshed (C) – Built Conditions

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the intersection of Mills Pond Road and Rt. 25A while traveling south with grass lawn, low planting in the foreground, Flowerfield signage, and a mix of evergreen and deciduous trees behind the signage. There is a very limited view into the property in the winter months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (C) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character of the property during the winter months.

The changes to this view are associated with the new traffic signal and associated roadway striping. As discussed in the Traffic Study (Appendix F, page F-47), a signal may be warranted under existing traffic volume conditions.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)
Viewshed (C) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the intersection of Mills Pond Road and Rt. 25A while traveling south with grass lawn, low planting in the foreground, Flowerfield signage, and a mix of evergreen and deciduous trees behind the signage. There is a limited view into the property in the winter months, but the view in the summer months is negligible due to the dense overgrowth.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed © – Existing Conditions

Gyrodyne LLC Subdivision

Summer

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character during the summer months.

The changes to this view are associated with the new traffic signal and associated roadway striping. As discussed in the Traffic Study (Appendix F, page F-47), a signal may be warranted under existing traffic volume conditions.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)
Viewshed (C) – Built Conditions

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the intersection of Mills Pond Road and Rt. 25A looking due east from across the road- with grass lawn, low planting in the foreground, Flowerfield signage, and a mix of evergreen and deciduous trees behind the signage. There is a very limited view into the property in the winter months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed © – View due East - Existing Conditions

Gyrodyne LLC Subdivision

Winter

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in the winter months.

The changes to this view are associated with the new traffic signal and associated roadway striping. As discussed in the Traffic Study (Appendix F, page F-47), a signal may be warranted under existing traffic volume conditions.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (C) – View due East - Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the intersection of Mills Pond Road and Rt. 25A looking due east from across the road- with grass lawn, low planting in the foreground, Flowerfield signage, and a mix of evergreen and deciduous trees behind the signage. There is negligible view into the property in the summer months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road

Viewshed (C) – View due East - Existing Conditions

Gyrodyne LLC Subdivision

Summer

There is no proposed development in this area of the property, hence no change is observed in the aesthetic character in the summer months.

The changes to this view are associated with the new traffic signal and associated roadway striping. As discussed in the Traffic Study (Appendix F, page F-47), a signal may be warranted under existing traffic volume conditions.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (C) – View due East - Built Conditions

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the southern section of the property on the Rt. 25A corridor while traveling north. This section has a narrow shoulder, fence line, and a double row of mature evergreens trees. The trees are not dense but the double row provides some screening in the winter. There is limited view into the property under the branching and some gaps from sparse tree growth, in the winter months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (D) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

The built masses are not visible from the road while driving or walking/biking- based on the view angle and the double row of evergreen trees. . There is limited view into the property under the branching and some gaps from sparse tree growth, in the winter months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
 (Traveling North On Route 25A)
 Viewshed (D) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the southern section of the property on the Rt. 25A corridor traveling north. This section has a narrow shoulder, fence line and a double row of mature evergreens trees. The trees are not dense but the double row along with the dense deciduous undergrowth provides substantial screening in the summer. There is negligible view into the property due to the dense undergrowth.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



CAMERON ENGINEERING & ASSOCIATES, LLP

View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (D) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

The built masses are not visible from the road while driving or walking/biking- based on the view angle and the double row of evergreen trees. . There is negligible view into the property under the branching or some gaps from sparse tree growth, in the summer months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
 (Traveling North On Route 25A)
 Viewshed (D) – Built Conditions

Gyrodyne LLC Subdivision

Winter

The built masses are not visible from the road while driving or walking/biking based on the view angle and the double row of evergreen trees, however, if a bicyclist/pedestrian or a passenger in a car views the property while standing at an angle of 45 degrees (as shown in the image), a limited view of the proposed hotel structure is observed in the winter months. The proposed location of the hotel structure is more than 350 feet from the road. The image on the following page shows the built mitigated conditions. Mitigation with supplemental evergreen planting provides additional screening of the built masses. The planting in the built mitigated, is shown at about five-year maturity after installation. The proposed supplemental planting is also shown on the Landscape Plan, drawing C-15, part of the Preliminary Street Grading and Drainage plans in Appendix M.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (D) – Existing View at 45°

Gyrodyne LLC Subdivision

Winter



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



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View into Flowerfield from North Country Road
(Traveling North on Route 25A)

Viewshed (D) - View at 45° - Built Mitigated Condition

Gyrodyne LLC Subdivision

Winter

The built masses are not visible from the road while driving or walking/biking based on the view angle and the double row of evergreen trees, however, if a bicyclist/pedestrian or a passenger in a car views the property standing perpendicular to the site (as shown in the image), a limited view of the proposed hotel structure would be observed in the winter months. The proposed location of the hotel structure is more than 350 feet from the road. The image on the following page shows the built mitigated conditions. Mitigation with supplemental evergreen planting provides additional screening of the built masses. The planting in the built mitigated condition is shown at about five-year maturity after installation. The proposed supplemental planting is also shown in the Landscape Plan, drawing C-15, part of the Preliminary Street Grading and Drainage plans in Appendix M.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (D) – Existing View at 90°

Gyrodyne LLC Subdivision

Winter



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (D) - View at 90°
Built Mitigated Condition

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the southern section of the property on the Rt. 25A corridor while standing perpendicular to the project site. This section has a narrow shoulder, fence line and a double row of mature evergreens trees. The trees are not dense but the double row along with the dense deciduous undergrowth provides substantial screening in the summer. There is negligible view into the property due to the dense undergrowth.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (D) – Existing View at 90°

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the southern section of the property on the Rt. 25A corridor while standing perpendicular to the project site. This section has a narrow shoulder, fence line and a double row of mature evergreens trees. The trees are not dense but the double row along with the dense deciduous undergrowth provides substantial screening in the summer. There is negligible view into the property due to the dense undergrowth.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (D) – 90° Built Mitigated Condition

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the southern section of the property on the Rt. 25A corridor traveling south. This section has a narrow shoulder, fence line and a double row of mature evergreens trees. The trees are not dense but the double row provides some screening in the winter. There is limited view into the property under the branching and some gaps from sparse tree growth, in the winter months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (D) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

The built masses are not visible from the road while driving or walking/biking- based on the view angle and the double row of evergreen trees. . There is limited view into the property under the branching and some gaps from sparse tree growth, in the winter months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)
Viewshed (D) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the southern section of the property on the Rt. 25A corridor while traveling south. This section has a narrow shoulder, fence line and a double row of mature evergreens trees. The trees appear more dense in the summer and the double row along with the dense deciduous undergrowth provides substantial screening. There is negligible view into the property due to the dense undergrowth.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (D) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

The built masses are not visible from the road while driving or walking/biking- based on the view angle and the double row of evergreen trees. . There is negligible view into the property under the branching or some gaps from sparse tree growth, in the summer months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On 25A)

Viewshed (D) – Built Conditions

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the central section of the property on the Rt. 25A corridor while traveling north in the vicinity of the proposed campus driveway.

This section has a narrow shoulder, fence line, and mature evergreens trees. The trees are not very dense in the winter. There is limited view into the property under the branching and some gaps from sparse tree growth, in the winter months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



CAMERON ENGINEERING
& ASSOCIATES, LLP

View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (E) – Existing Conditions at Tangential View

Gyrodyne LLC Subdivision

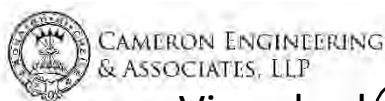
Winter

The proposed campus development with a main entry at this location entails removal of trees to facilitate a tree lined entry driveway with median. As a result, an interruption or gap in the existing landscape is created. The proposed building masses will not be visible from the road while driving or walking/biking, based on the view angle and the row of evergreen trees. There is limited view into the property under the branching and some gaps from sparse tree growth in the winter months.

The proposed plantings, a combination of mature deciduous and evergreen plantings, will provide an aesthetic infill of new plantings across and within the entrance area. The proposed campus signage is envisioned to be a natural stone material, blending into the landscape.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (E) – Mitigated Built Conditions at Tangential View

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the central section of the property on the Rt. 25A corridor while traveling north in summer. This section has a narrow shoulder, fence line and mature evergreens trees. The trees are not very dense and provide a limited view into the property under the branching and some gaps from sparse tree growth, in the winter months. However, as shown in the image, these gaps appear filled substantially in the summer months with deciduous undergrowth resulting in negligible views into the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (E) – Existing Conditions at Tangential View

Gyrodyne LLC Subdivision

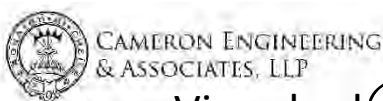
Summer

The proposed campus development with a main entry at this location entails removal of trees to facilitate a tree lined entry driveway with median. As a result, an interruption or gap in the existing landscape is created. The proposed building masses will not be visible from the road while driving or walking/biking, based on the view angle and the row of evergreen trees. There is negligible view into the property under the branching and some gaps from sparse tree growth, in the summer months.

The proposed plantings, a combination of mature deciduous and evergreen plantings, will provide an aesthetic infill of new plantings across and within the entrance area. The proposed campus signage is envisioned to be a natural stone material, blending into the landscape.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (E) – Mitigated Built Conditions at Tangential View

Gyrodyne LLC Subdivision

Winter

The built masses are not visible from the road while driving or walking/biking based on a tangential view angle. However, if a bicyclist/pedestrian or a passenger in a car views the property while facing the site at a 45° angle (as shown in the image on the next page), a substantial view of the proposed medical office structure is observed in the winter months. The proposed location of the medical building is over 400 feet from the road. The image on the following page shows the built mitigated conditions of the same location. Mitigation in the form of supplemental evergreen planting provides additional screening of the built masses. The planting in the built mitigated is shown at about five-year maturity after installation. Refer to the Landscape Plan, drawing C-15, part of the Preliminary Street Grading and Drainage plans in Appendix M, for the proposed planting information.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (E) – Existing Conditions at 45° View

Gyrodyne LLC Subdivision

Winter



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



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View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (E) – Mitigated Built Condition at 45° View

Gyrodyne LLC Subdivision

Summer

The built masses are not visible from the road while driving or walking/biking based on a tangential view angle. However, if a bicyclist, pedestrian, or a passenger in a car views the property while standing at an angle of 45° to the property (as shown in the image), a very limited view of the proposed medical office structure is observed in the summer months. Mitigation with supplemental evergreen planting provides additional screening of the built masses. The proposed supplemental planting is also shown in the Landscape Plan, drawing C-15, part of the Preliminary Street Grading and Drainage plans in Appendix M.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (E) – Existing Conditions at 45° View

Gyrodyne LLC Subdivision

Summer



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (E) – Mitigated Built Condition at 45° View

Gyrodyne LLC Subdivision

Winter

The built masses are not visible from the road while driving or walking/biking based on the view angle and the row of evergreen trees, however, if a bicyclist, pedestrian, or a passenger in a car views the property standing perpendicular to the property (as shown in the image), a partial view of the proposed medical office and hotel is observed in the winter months, on the sides of the main entrance driveway. The image on the following page shows the built mitigated conditions at the same location. Mitigation in the form of flowering street trees in the central median and evergreen planting along the property boundary. The planting in the built mitigated is shown at about five-year maturity after installation. (Refer to the Landscape Plan, drawing C-15, part of the Preliminary Street Grading and Drainage plans in Appendix M, for the proposed planting information.)



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (E) – Existing Condition at 90° View

Gyrodyne LLC Subdivision

Winter



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (E) – Built Condition at 90° View

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the southern section of the property on the Rt. 25A corridor while standing perpendicular to the project site. The proposed location of the medical building is over 400 feet from the road. The trees are not dense but the double row along with the dense deciduous undergrowth provides substantial screening in the summer. There is negligible view into the property due to the dense undergrowth and proposed plantings. The proposed building masses are not visible as shown in the Mitigated Built condition on the next page.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (E) – Existing Condition at 90° View

Gyrodyne LLC Subdivision

Summer



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (E) – Built Condition at 90° View

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the central section of the property on the Rt. 25A corridor while traveling south in the vicinity of the proposed campus entrance. This section has a narrow shoulder, fence line, and mature evergreens trees. The trees are not very dense. There is limited view into the property under the branching and some gaps from sparse tree growth, in the winter months.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (E) – Existing Condition at 45° View

Gyrodyne LLC Subdivision

Winter

As one views into the proposed driveway, a limited view of the hotel structure under the branching and gaps from sparse tree growth is observed in the winter months. The proposed location of the hotel structure is over 350 feet from the road.

The image below shows the built mitigated condition. Mitigation in the form of supplemental evergreen planting provides additional screening of the built masses. The planting in the built mitigated condition is shown at about the five-year maturity after installation.

(Refer to the Landscape Plan, drawing C-15, part of the Preliminary Street Grading and Drainage plans in Appendix M, for the proposed planting information.)



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (E) – Built Mitigated Condition at 45° View

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the central section of the property on the Rt. 25A corridor while traveling south in summer in the vicinity of the proposed campus driveway. This section has a narrow shoulder, fence line and mature evergreens trees. The trees are not very dense providing a very limited view into the property from some gaps in the sparse tree growth, mainly in the winter months (refer to winter view). However, these gaps fill up substantially in the summer months with deciduous undergrowth resulting in negligible views into the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (E) – Existing Condition at 45° View

Gyrodyne LLC Subdivision

Summer

The proposed development with a main entry at this location entails removal of trees to facilitate a tree lined entry driveway with median. As a result, an interruption or gap in the existing landscape is created. The proposed buildings are not visible from the road while driving or walking/biking based on the view angle, the row of evergreen trees, and the proposed plantings as illustrated in the Built Mitigated condition below.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



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View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (E) – Built Mitigated Condition at 45° View

Gyrodyne LLC Subdivision

Winter

The built masses are not visible from the road while driving or walking/biking based on a tangential view angle. The campus driveway area will be visible with the proposed signage and landscaping.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



CAMERON ENGINEERING & ASSOCIATES, LLP

View into Flowerfield from North Country Road
(Traveling South On Route 25A)

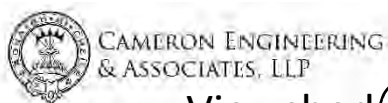
Viewshed (E) – Existing Condition at Tangential View

Gyrodyne LLC Subdivision

Winter



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (E) – Mitigated Built Condition at Tangential View

Gyrodyne LLC Subdivision

Summer



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



CAMERON ENGINEERING & ASSOCIATES, LLP

View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (E) – Existing Condition at Tangential View

Gyrodyne LLC Subdivision

Summer



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



CAMERON ENGINEERING
& ASSOCIATES, LLP

View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (E) – Mitigated Built Condition at Tangential View

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the section of the property near the intersection of Shep Jones Lane on the Rt. 25A corridor while traveling north. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath. A substantial gap/opening was observed in the planting within this section providing views inside the property. The gap in the planting is visible while driving/ walking/biking but provides a limited view inside because of the view angle.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (F) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

The gap in the planting is visible while driving/ walking/biking but provides only a limited view inside because of the view angle. The built masses are not visible at this angle while travelling north, despite the significant gaps in planting.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (F) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the section of the property near the intersection of Shep Jones Lane on the Rt. 25A corridor while traveling north in summer. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath. A substantial gap/opening was observed in the planting within this section providing views inside the property. The gap in the planting is visible while driving/ walking/biking but provides only a limited view inside because of the view angle.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (F) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

The gap in the planting is visible while driving/ walking/biking but provides only a limited view inside because of the view angle. The built masses are not visible at this angle while travelling north, despite the significant gaps in planting.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
 (Traveling North On Route 25A)
 Viewshed (F) – Built Conditions

Gyrodyne LLC Subdivision

Winter

The built masses are not visible from the road while driving or walking/biking based on the view angle and the row of evergreen trees, however, if a bicyclist/pedestrian or a passenger in a car views the property while standing across the road at 90 degrees (as shown in the image), a limited view of the proposed Assisted Living structure is observed between the evergreen trees in the winter months. The proposed location of the Assisted Living structure is over 250 feet from the road. The image on the following page shows the built mitigated conditions of the same location. Mitigation in the form of supplemental evergreen planting provides additional screening of the built masses. The planting in the built mitigated is shown at about five-year maturity after installation. The proposed supplemental planting is also shown in the Landscape Plan.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (F) – Existing View at 90° Inside

Gyrodyne LLC Subdivision

Winter



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (F) - Built Mitigated

Gyrodyne LLC Subdivision

Summer

The built masses are not visible from the road while driving or walking/biking based on the view angle and the row of evergreen trees, however, if a bicyclist/pedestrian or a passenger in a car views the property while standing across the road at 90 degrees (as shown in the image), a limited view of the proposed Assisted Living structure is observed between the evergreen trees in the summer months. The proposed location of the Assisted Living structure is over 250 feet from the road. The image on the following page shows the built mitigated conditions of the same location. Mitigation in the form of supplemental evergreen planting provides additional screening of the built masses. The planting in the built mitigated is shown at about five-year maturity after installation. The proposed supplemental planting is also shown in the Landscape Plan.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (F) – Existing View at 90° Inside

Gyrodyne LLC Subdivision

Summer



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (F) - Built Mitigated

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the section of the property near the intersection of Shep Jones Lane on the Rt. 25A corridor while traveling south. This section has a narrow shoulder, fence line and the property limit is lined with mature evergreens trees and deciduous natural growth underneath. A substantial gap/opening was observed in the planting within this section providing a fair view inside.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)
Viewshed (F) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

The gap in the planting is visible while driving/ walking/biking but provides only a limited view inside because of the view angle. The built masses at a significant distance inside the property are not visible at this angle while travelling south, despite the significant gaps in planting. Evergreen planting is proposed to screen this section of the viewshed, also shown in the existing and built conditions comparative analysis on the following pages.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)
Viewshed (F) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the section of the property near the intersection of Shep Jones Lane on the Rt. 25A corridor while traveling south in summer. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath. A substantial gap/opening was observed in the planting within this section providing views inside the property. The gap in the planting is visible while driving/ walking/biking and provides only a limited view inside the property because of the view angle.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (F) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

The gap in the planting is visible while driving/ walking/biking but provides only a limited view inside because of the view angle. The built masses at a significant distance inside the property are not visible at this angle while travelling south, despite the significant gaps in planting. Evergreen planting is proposed to screen this section of the viewshed.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (F) – Built Conditions

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the northern section of the property on the Rt. 25A corridor while traveling north. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath which provides dense screening. Additionally the site is elevated from the road in this section which provides additional screening to the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



CAMERON ENGINEERING & ASSOCIATES, LLP

View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (G) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

The elevation difference and dense evergreen planting provide sufficient screening of the site from the road level, hence no change is observed after development.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
 (Traveling North On Route 25A)
 Viewshed (G) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the northern section of the property on the Rt. 25A corridor while traveling north. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath which provides dense screening. Additionally the site is elevated from the road in this section which provides additional screening to the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (G) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

The elevation difference and dense evergreen planting provide sufficient screening of the site from the road level, hence no change is observed after development.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
 (Traveling North On Route 25A)
 Viewshed (G) – Built Conditions

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the northern section of the property on the Rt. 25A corridor looking perpendicular into the site. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath which provides dense screening. Additionally the site is elevated from the road in this section which provides additional screening to the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (G) – Existing View at 90° Inside

Gyrodyne LLC Subdivision

Winter



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
 Viewshed (G) – Built Conditions at 90° Inside

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the northern section of the property on the Rt. 25A corridor looking perpendicular into the site. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath which provides dense screening. Additionally the site is elevated from the road in this section which provides additional screening to the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (G) –Existing View at 90° Inside

Gyrodyne LLC Subdivision

Summer



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (G) – Built Conditions at 90° Inside

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the northern section of the property on the Rt. 25A corridor while traveling south. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath which provides dense screening. Additionally the site is elevated from the road in this section which provides additional screening to the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (G) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

The elevation difference and dense evergreen planting provide sufficient screening of the site from the road level, hence no change is observed after development.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
 (Traveling South On Route 25A)
 Viewshed (G) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the northern section of the property on the Rt. 25A corridor while traveling south in summer. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath which provides dense screening. Additionally the site is elevated from the road in this section which provides additional screening to the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (G) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

The elevation difference and dense evergreen planting provide sufficient screening of the site from the road level, hence no change is observed after development.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



CAMERON ENGINEERING & ASSOCIATES, LLP

View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (G) – Built Conditions

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the northernmost section of the property on the Rt. 25A corridor while traveling north. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath which provides dense screening. Additionally the site is elevated from the road in this section which provides additional screening to the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (H) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

The elevation difference and dense evergreen planting provide sufficient screening of the site from the road level, hence no change is observed after development.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
 (Traveling North On Route 25A)
 Viewshed (H) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the northernmost section of the property on the Rt. 25A corridor while traveling north in summer. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath which provides dense screening. Additionally the site is elevated from the road in this section which provides additional screening to the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)

Viewshed (H) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

The elevation difference and dense evergreen planting provide sufficient screening of the site from the road level, hence no change is observed after development.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling North On Route 25A)
Viewshed (H) – Built Conditions

Gyrodyne LLC Subdivision

Winter



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (H) –Existing View at 90° Inside

Gyrodyne LLC Subdivision

Winter



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (H) – Built Conditions at 90° Inside

Gyrodyne LLC Subdivision

Summer



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
Viewshed (H) – Existing View at 90° Inside

Gyrodyne LLC Subdivision

Summer



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
 Viewshed (H) – Built Conditions at 90° Inside

Gyrodyne LLC Subdivision

Winter

View illustrates the aesthetic character at the northernmost section of the property on the Rt. 25A corridor while traveling south. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath which provides screening. Some gaps are seen while travelling south in the winter but the site elevation is substantially higher than street elevation which provides additional screening to the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (H) – Existing Conditions

Gyrodyne LLC Subdivision

Winter

The elevation difference and evergreen planting provide sufficient screening of the site from the road level, hence no change is observed after development. Supplemental evergreen planting is proposed in this area , as shown in the image to further enhance the screening.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
(Traveling South On Route 25A)
Viewshed (H) – Built Conditions

Gyrodyne LLC Subdivision

Summer

View illustrates the aesthetic character at the northernmost section of the property on the Rt. 25A corridor while traveling south in summer. This section has a narrow shoulder, fence line and property limit is lined with mature evergreens trees and deciduous natural growth underneath which provides dense screening. Additionally the site is elevated from the road in this section which provides additional screening to the property.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



CAMERON ENGINEERING & ASSOCIATES, LLP

View into Flowerfield from North Country Road
(Traveling South On Route 25A)

Viewshed (H) – Existing Conditions

Gyrodyne LLC Subdivision

Summer

The elevation difference and dense evergreen planting provide sufficient screening of the site from the road level, hence no change is observed after development.



NOTE: Proposed building structures shown are simplified architectural massing and color models for visual analysis purposes.



View into Flowerfield from North Country Road
 (Traveling South On Route 25A)
 Viewshed (H) – Built Conditions

*Draft Environmental Impact Statement
Map of Flowerfield Subdivision Application*

November 2019

Appendix L:
Flowerfield Permits

HAMLET OF ST. JAMES, NY

Date October 20, 2000
Zone LI
Permit No. 93333
Elect. Cert. NYB 452050

BUILDING DEPARTMENT
TOWN OF SMITHTOWN
99 WEST MAIN STREET
SMITHTOWN, NY 11787
SUFFOLK COUNTY

CERTIFICATE OF:

- ZONING
- OCCUPANCY
- COMPLIANCE

This certifies that the Building

Located at the south side of Route 25A, east of Mills Pond Road

Map of Described Property

S.C.T.M. No. 0800 40-2-13

Conforms substantially with the terms and requirements of the New York State Uniform Fire Prevention and Building Code and Town of Smithtown Zoning Ordinance, as amended to date, and may be permitted to be used and occupied as a/an

one story building 7,583 sq.ft. with plumbing as per approved Site Plan (Catering Hall)

Subject to the following conditions:

Owner Flowerfield Celebrations Inc., Gyrodyne of America Mills Pond Road St. James, NY 11780



Signed Robert A. Bonerba
CHIEF BUILDING OFFICIAL

COPY

The building or any part thereof shall not be used for any purpose other than for which it is certified. Certificate will be null and void if the use and / or building is changed or altered in any manner or additions are made thereto without authorization from the Building Department.

HAMLET OF
St. James

Date February 23, 1995
Zone LI
Permit No. 86489
Elect. Cert. N 273078

BUILDING DEPARTMENT
TOWN OF SMITHTOWN
99 WEST MAIN STREET
SMITHTOWN, NY 11787
SUFFOLK COUNTY

ZONING
CERTIFICATE OF: **OCCUPANCY**
 COMPLIANCE

This certifies that the Building

located at east side Mills Pond Road, south of Route 25A

Map of _____

S.C.T.M. No. 0800 40-2-13

Conforms substantially with the terms and requirements of the New York State Uniform Fire Prevention and Building Code and Town of Smithtown Zoning Ordinance, as amended to date, and may be permitted to be used and occupied as a n addition 4,891 sq-ft. to existing commercial building No. 17 and removal of existing courtyard.

Subject to the following conditions: PER APPROVED SITE PLAN

COPY

Owner Cyrodyne Co. of America, 199 Mills Pond Road, St. James, New York

Signed Robert A. Benante
CHIEF BUILDING OFFICIAL

The building or any part thereof shall not be used for any purpose other than for which it is certified. Certificate will be null and void if the use and/or building is changed or altered in any manner or additions are made thereto without authorization from the Building Department.

HAMLET OF
St. James, NY

Date: February 18, 2000
Permit No : 100739

BUILDING DEPARTMENT
TOWN OF SMITHTOWN
99 WEST MAIN STREET
SMITHTOWN, NEW YORK 11787
SUFFOLK COUNTY

CERTIFICATE OF ZONING
CERTIFICATE OF COMPLIANCE

This certifies that the: Commercial Addition
located at the East side of Mills Pond Roadk, south of Rte. 25A

Map of Described Property Block: Lot(s):
S.C.T.M.# 800 040.000-0002-015.000 Zone: LI

Electrical Certificate: (EIS)31080

Conforms substantially with the terms and requirements of the New York State Uniform Fire Prevention and Building Code and the Town of Smithtown Zoning Ordinance, as amended to date, and may be permitted to be used and/or occupied as a:

Installation of walk-in box to existing catering facility - FLOWERFIELD CELEBRATION - As per site plan approved on 6/29/99

Subject to the following conditions:

Owner: Gyrodyne Company of America 199 Mills Pond Road St. James, NY 11780

Signed Robert A. Bonerba
CHIEF BUILDING OFFICIAL *gs*

The building or any part thereof shall not be used for any purpose other than for which it is certified. Certificate will be null and void if the use and / or building is changed or altered in any manner or additions are made thereto without authorization from the Building Department.

HAMLET OF
St. James, NY

Date: July 19, 2002
Permit No 109621

BUILDING DEPARTMENT
TOWN OF SMITHTOWN
99 WEST MAIN STREET
SMITHTOWN, NEW YORK 11787
SUFFOLK COUNTY

CERTIFICATE OF ZONING
CERTIFICATE OF OCCUPANCY

This certifies that the **Commercial Addition**
located at the **East side of Mills Pond Road**
Map of **Described Property** **Block:** **Lot(s):**
S.C.T.M.# 0800 **89-040.000-0002-013.000** **Zone: LI**
Electrical Certificate: EII 60302

Conforms substantially with the terms and requirements of the New York State Uniform Fire Prevention and Building Code and the Town of Smithtown Zoning Ordinance, as amended to date, and may be permitted to be used and/or occupied as a:

Addition 1000 sq.ft. (lobby entrance-way to the Flowerfield Catering Facility - Lovin' Oven) with gas fireplace to existing building as per site plan exemption approved on 4-26-01

Subject to the following conditions:

Owner: Gyrodyne of America Mills Pond Road St. James, NY 11780

Signed *John J. Bonetta*
CHIEF BUILDING OFFICIAL

The building or any part thereof shall not be used for any purpose other than for which it is certified. Certificate will be null and void if the use and / or building is changed or altered in any manner or additions are made thereto without authorization from the Building Department.

HAMLET OF

St. James

Date March 3, 1966

Zone LI

Permit No. 26070

Elect. Cert. _____

BUILDING DEPARTMENT

TOWN OF SMITHTOWN

99 WEST MAIN STREET

SMITHTOWN, NY 11787

SUFFOLK COUNTY

CERTIFICATE OF:

ZONING

OCCUPANCY

COMPLIANCE

This certifies that the Building

located at south side of 25A and Mills Pond Road

Map of Described property

S.C.T.M. No. 0800 40-02-11 - 13- 15

Conforms substantially with the terms and requirements of the New York State Uniform Fire Prevention and Building Code and Town of Smithtown Zoning Ordinance, as amended to date, and may be permitted to be used and occupied as a Pool service enclosure 100' x 120'

Subject to the following conditions:

COPY

Owner Gyrodyne Co. of America, Inc. Mills Pond Road St. James, New Yo.

Signed Harvey R. Manuel
CHIEF BUILDING OFFICIAL

The building or any part thereof shall not be used for any purpose other than for which it is certified. Certificate will be null and void if the use and/or building is changed or altered in any manner or additions are made thereto without authorization from the Building Department.

HAMLET OF
St. James, NY

Date: February 22, 2000
Permit No : 103551

BUILDING DEPARTMENT
TOWN OF SMITHTOWN
99 WEST MAIN STREET
SMITHTOWN, NEW YORK 11787
SUFFOLK COUNTY

CERTIFICATE OF ZONING
CERTIFICATE OF OCCUPANCY

This certifies that the: Commercial Interior Alteration
located at the East side of Mills Pond Road

Map of Described Property Block: Lot(s):
S.C.T.M.# 800 040.000-0002-014.000 Zone: LI

Electrical Certificate: (LIE)SJ98296

Conforms substantially with the terms and requirements of the New York State Uniform Fire
Prevention and Building Code and the Town of Smithtown Zoning Ordinance, as amended to date,
and may be permitted to be used and/or occupied as a:

Interior alterations first floor 5065 sq.ft. and change of use from private residence to office use.
As per site plan exemption. GYRODYNE CO. OF AMERICA

Subject to the following conditions:

Owner: Gyrodyne of America Mills Pond Road St. James, NY 11780

(Not valid Without Raised Seal)

Signed *A. William Bennett*
CHIEF BUILDING OFFICIAL

The building or any part thereof shall not be used for any purpose other than for which it is certified. Certificate will be null and void if the
use and / or building is changed or altered in any manner or additions are made thereto without authorization from the Building Department.

HAMLET OF
St. James, NY

Date: February 22, 2000
Permit No : 103551

BUILDING DEPARTMENT
TOWN OF SMITHTOWN
99 WEST MAIN STREET
SMITHTOWN, NEW YORK 11787
SUFFOLK COUNTY

CERTIFICATE OF ZONING
CERTIFICATE OF OCCUPANCY

This certifies that the: Commercial Interior Alteration
located at the East side of Mills Pond Road

Map of Described Property Block Lot(s)

S.C.T.M.# 800 040.000-000 014.000

Electrical Certificate: (LIE)S19-246

Conforms substantially with the terms and requirements of the New York State Uniform Fire
Prevention and Building Code and the Town of Smithtown Zoning Ordinance, as amended to date,
and may be permitted to be used and/or occupied as a:

Interior alterations first floor 065 sq. ft. and change of use from private residence to office use.
As per site plan exemption. GYRODYNE CO. OF AMERICA

Subject to the following conditions:

Owner: Gyrodyne of America

Mills Pond Road

St. James, NY 11780

Signed

A. L. J. Bennett

CHIEF BUILDING OFFICIAL

The building or any part thereof shall not be used for any purpose other than for which it is certified. Certificate will be null and void if the
use and / or building is changed or altered in any manner or additions are made thereto without authorization from the Building Department.

New York State Department of Environmental Conservation
Division of Environmental Permits
Building 40 - SUNY, Stony Brook, NY 11790-2356
Phone (516) 444-0365
Fax # (516) 444-0360



John P. Cahill
Commissioner

July 31, 1997

Flowerfield Celebrations Inc.
80 Brown's River Road
Sayville, NY 11782

RE: 1-4734-00387/00002

Dear Permittee:

In conformance with the requirements of the State Uniform Procedures Act (Article 70, ECL) and its implementing regulations (6NYCRR, Part 621) we are enclosing your permit. Please read all conditions carefully. If you are unable to comply with any conditions, please contact us at the above address.

Also enclosed is a permit sign which is to be conspicuously posted at the project site and protected from the weather.

Very truly yours,

Charles T. Hamilton
Permit Administrator

CTH/ljs
File

DEC PERMIT NUMBER 1-4734-00387/00002
FACILITY/PROGRAM NUMBER(S)



EFFECTIVE DATE July 28, 1997
EXPIRATION DATE(S) July 31, 2000

TYPE OF PERMIT New Renewal Modification Permit to Construct Permit to Operate

- | | | |
|---|---|---|
| <input type="checkbox"/> Article 15, Title 5: Protection of Waters | <input type="checkbox"/> 6NYCRR 608: Water Quality Certification | <input type="checkbox"/> Article 27, Title 7; 6NYCRR 360: Solid Waste Management |
| <input type="checkbox"/> Article 15, Title 15: Water Supply | <input type="checkbox"/> Article 17, Titles 7, 8: SPDES | <input type="checkbox"/> Article 27, Title 9; 6NYCRR 373: Hazardous Waste Management |
| <input type="checkbox"/> Article 15, Title 15: Water Transport | <input type="checkbox"/> Article 19: Air Pollution Control | <input type="checkbox"/> Article 34: Coastal Erosion Management |
| <input type="checkbox"/> Article 15, Title 15: Long Island Wells | <input type="checkbox"/> Article 23, Title 27: Mined Land Reclamation | <input type="checkbox"/> Article 36: Floodplain Management |
| <input type="checkbox"/> Article 15, Title 27: Wild, Scenic and Recreational Rivers | <input checked="" type="checkbox"/> Article 24: Freshwater Wetlands | <input type="checkbox"/> Articles 1, 3, 17, 19, 27, 37; 6NYCRR 380: Radiation Control |
| <input type="checkbox"/> Article 25: Tidal Wetlands | | |
| <input type="checkbox"/> Other: | | |

PERMIT ISSUED TO Flowerfield Celebrations, Inc.		TELEPHONE NUMBER (516) 244-7130	
ADDRESS OF PERMITTEE 80 Brown's River Road, Sayville, NY 11782			
CONTACT PERSON FOR PERMITTED WORK Gyrodyne Company of America, Inc.		TELEPHONE NUMBER (516) 584-5400	
NAME AND ADDRESS OF PROJECT/FACILITY 199 Mills Pond Road			
LOCATION OF PROJECT/FACILITY Saint James, NY 11780			
COUNTY Suffolk	TOWN Smithtown	WATERCOURSE	NYTM COORDINATES
DESCRIPTION OF AUTHORIZED ACTIVITY Construct steel and masonry building with wood truss roof in place of an existing single story structure and install leaching rings. All work shall be in accordance with the NYSDEC approved plans by Kevin Mark Paul dated April 1997.			

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified (see page 2) and any Special Conditions included as part of this permit.

PERMIT ADMINISTRATOR: <i>RJ</i> Charles T. Hamilton	ADDRESS Building 40, SUNY, Room 219, Stony Brook, NY 11790-2356
AUTHORIZED SIGNATURE <i>Charles T. Hamilton</i>	DATE July 31, 1997
Page 1 of 5	

Inspections

1. The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3). A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Permit Changes and Renewals

2. The Department reserves the right to modify, suspend or revoke this permit when:
 - a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
 - b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
 - c) new material information is discovered; or
 - d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.
3. The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms, fees or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.
4. The permittee must submit a renewal application at least:
 - a) 180 days before expiration of permits for State Pollutant Discharge Elimination System (SPDES), Hazardous Waste Management Facilities (HWMF), major Air Pollution Control (APC) and Solid Waste Management Facilities (SWMF); and
 - b) 30 days before expiration of all other permit types.
5. Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination perviously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Other Legal Obligations of Permittee

6. The permittee has accepted expressly, by the execution of the application, the full legal responsibility for all damages, direct or indirect, of whatever nature and by whomever suffered, arising out of the project described in this permit and has agreed to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from this project.
7. This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.
8. The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required for this project.

95-20-6a (7-92) - 25e

ADDITIONAL GENERAL CONDITIONS FOR ARTICLES 15 (Title 5), 24, 25, 34 and 6 NYCRR Part 608 (Freshwater Wetlands)

- 9 That if future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department of Environmental Conservation it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners, shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.
- 10 That the State of New York shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.
- 11 Granting of this permit does not relieve the applicant of the responsibility of obtaining any other permission, consent or approval from the U.S. Army Corps of Engineers, U.S. Coast Guard, New York State Office of General Services or local government which may be required.
- 12 All necessary precautions shall be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate or any other environmentally deleterious materials associated with the project.
- 13 Any material dredged in the prosecution of the work herein permitted shall be removed evenly, without leaving large refuse piles, ridges across the bed of a waterway or floodplain or deep holes that may have a tendency to cause damage to navigable channels or to the banks of a waterway.
- 14 There shall be no unreasonable interference with navigation by the work herein authorized.
- 15 If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the applicant shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.
- 16 If granted under 6 NYCRR Part 608, the NYS Department of Environmental Conservation hereby certifies that the subject project will not contravene effluent limitations or other limitations or standards under Sections 301, 302, 303, 306 and 307 of the Clean Water Act of 1977 (PL 95-217) provided that all of the conditions listed herein are met.
- 17 All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or his agent as part of the permit application.

Such approved plans were prepared by _____ on _____

SPECIAL CONDITIONS

- 1. Any work, disturbance, and storage of construction materials shall be confined to areas greater than 10' from the edge of pond.
- 2. All disturbed areas where soil is temporarily exposed or stockpiled for longer than one (1) day shall be covered with a tarp or contained by a continuous line of staked straw bales placed on the downslope or wetland side.
- 3. Any demolition debris, excess construction materials, and/or excess excavated materials shall be immediately and completely disposed of on an approved upland site more than 100 feet from any regulated freshwater wetland. These materials shall be suitably stabilized so as not to re-enter any water body, wetland, or wetland adjacent area.
- 4. Use of wood treated with pentachlorophenol or creosote is prohibited. Standard pressure treated lumber is treated with CCA and its use is permitted.

DEC. PERMIT NUMBER
1-4734-00387/00002

PROGRAM FACILITY NUMBER

SPECIAL CONDITIONS

For Article 24 (Freshwater Wetlands)

5. All areas of soil disturbance resulting from this project shall be seeded with an appropriate perennial grass, and mulched with straw immediately upon completion of the project, within two (2) days of final grading, or by the expiration of the permit, whichever is first. Mulch shall be maintained until a suitable vegetative cover is established. If seeding is impracticable due to the time of year, a temporary mulch shall be applied and final seeding shall be performed as soon as weather conditions favor germination and growth.

6. Suitable vegetative cover is defined as a minimum of 85% area vegetative cover with contiguous unvegetated areas no larger than 1 square foot in size.

Supplementary Special Conditions (A) through (F) attached.

DEC PERMIT NUMBER
1-4734-00387/00002

FACILITY ID NUMBER

PROGRAM NUMBER

The following conditions apply to all Tidal Wetlands; Freshwater Wetlands; Coastal Erosion Management; and Wild, Scenic, and Recreational Rivers Permits:

- A. A copy of this permit, including all conditions and approved plans, shall be available at the project site whenever authorized work is in progress. The permit sign enclosed with the permit shall be protected from the weather and posted in a conspicuous location at the work site until all authorized work has been completed.
- B. The permittee shall require that any contractor, project engineer, or other person responsible for the overall supervision of this project reads, understands, and complies with this permit and all its general, special, and supplementary special conditions. Any failure to comply precisely with all of the terms and conditions of this permit, unless authorized in writing, shall be treated as a violation of the Environmental Conservation Law. If any of the permit conditions are unclear, the permittee shall contact the Division of Regulatory Affairs at the address on page one or telephone (516) 444-0365.
- C. If project design modifications become necessary after permit issuance, the permittee shall submit the appropriate plan changes for approval by the Regional Permit Administrator prior to undertaking any such modifications. The permittee is advised that substantial modification may require submission of a new application for permit.
- D. At least 48 hours prior to commencement of the project, the permittee and contractor shall sign and return the top portion of the enclosed notification form certifying that they are fully aware of and understand all terms and conditions of this permit. Within 30 days of completion of the permitted work, the bottom portion of that form shall also be signed and returned, along with photographs of the completed work and, if required, a survey.
- E. For projects involving activities to be undertaken in phases over a period of more than one year, the permittee shall notify the Regional Permit Administrator in writing at least 48 hours prior to recommencing work in subsequent years.
- F. The granting of this permit does not relieve the permittee of the responsibility of obtaining a grant, easement, or other necessary approval from the Division of Land Utilization, Office of General Services, Tower Building, Empire State Plaza, Albany, NY 12242 (516) 474-2195, which may be required for any encroachment upon State-owned lands underwater.

Tax Map # SJ-40-2-13



PERMIT



ISSUED: Thursday, June 08, 2017

TOWN OF SMITHTOWN DEPARTMENT OF PUBLIC SAFETY FIRE PREVENTION DIVISION

65 Maple Avenue, Smithtown, New York 11787 (631)360-7553

Permission is Hereby Granted To:

Flowerfield Celebrations

199 Mills Pond Road, St. James, NY 11780

Public Assembly
Occupant Limit

Expiration

Permit No. 17-1793 Public assembly [601-1,000 persons]

874

2/28/2018

*Draft Environmental Impact Statement
Map of Flowerfield Subdivision Application*

November 2019

Appendix M: Preliminary Engineering Plans

Included plans:

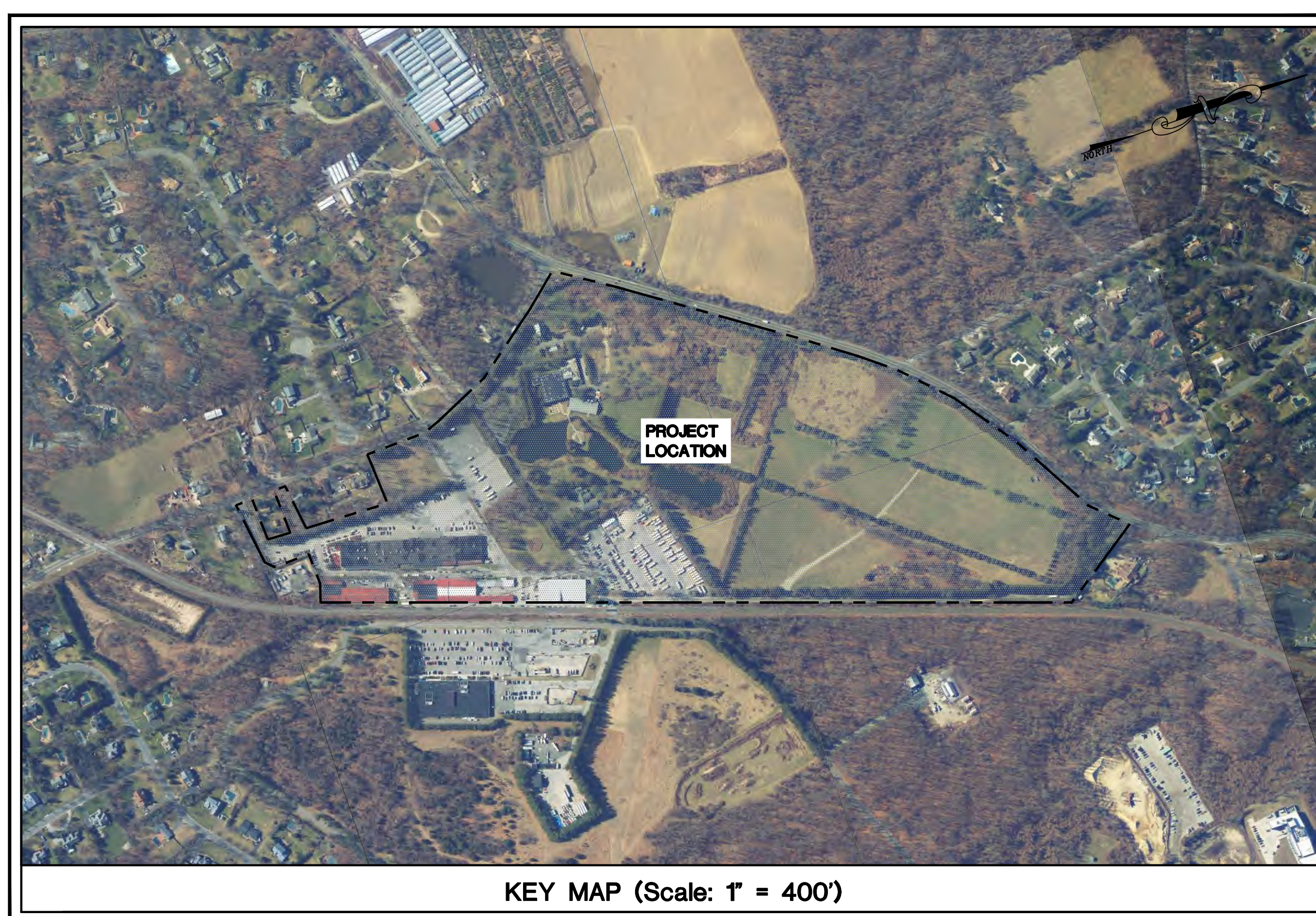
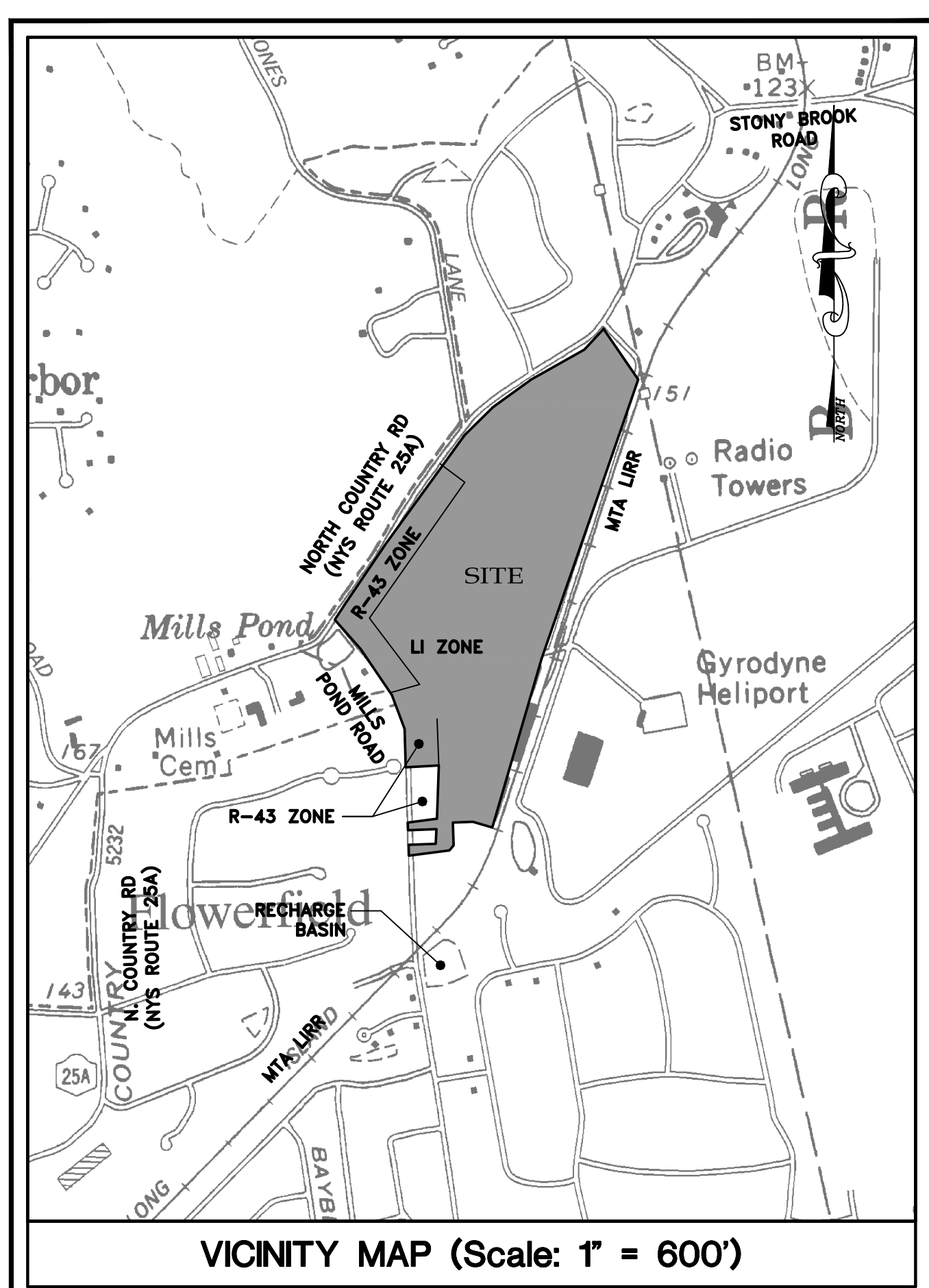
- Sheet C-0 (Cover)
- Sheet C-1 (Overall Streets Plan)
- Sheet C-2 (Grading & Drainage Plan 1)
- Sheet C-3 (Grading & Drainage Plan 2)
- Sheet C-4 (Grading & Drainage Plan 3)
- Sheet C-5 (Utility Plan 1)
- Sheet C-6 (Utility Plan 2)
- Sheet C-7 (Road Plan & Profile Road A – STA 10+00.00 TO 24+09.00)
- Sheet C-8 (Road Plan & Profile Road A – STA 24+09.00 TO 35+02.03)
- Sheet C-9 (Road Plan & Profile Road B – STA 10+00.00 TO 15+00.00)
- Sheet C-10 (Road Plan & Profile Road C – STA 10+00.00 TO 12+34.69)
- Sheet C-11 (DRA 1 & 3 Enlargement)
- Sheet C-12 (DRA 2 Enlargement)
- Sheet C-13 (Tree Preservation and Land Clearing Plan)
- Sheet C-14 (Tree Preservation and Land Clearing Plan (2))
- Sheet C-15 (Landscape Plan)

GYRODYNE, LLC

MAP OF FLOWERFIELD SUBDIVISION

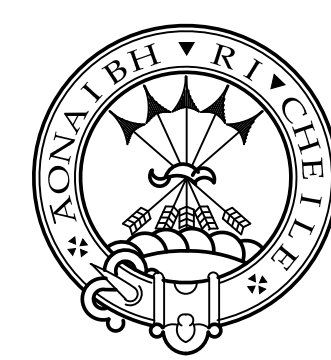
1 FLOWERFIELD
SAINT JAMES, NEW YORK 11780

Preliminary Engineering Plans



LIST OF DRAWINGS	
DRAWING No.	TITLE
--	COVER
C-1	OVERALL STREETS PLAN
C-2	GRADING & DRAINAGE PLAN 1
C-3	GRADING & DRAINAGE PLAN 2
C-4	GRADING & DRAINAGE PLAN 3
C-5	UTILITY PLAN 1
C-6	UTILITY PLAN 2
C-7	ROAD PLAN & PROFILE ROAD A - STA 10+00.00 TO STA 24+09.00
C-8	ROAD PLAN & PROFILE ROAD A - STA 24+09.00 TO STA 35+02.03
C-9	ROAD PLAN & PROFILE ROAD B - STA 10+00.00 TO STA 15+00.00
C-10	ROAD PLAN & PROFILE ROAD C - STA 10+00.00 TO STA 12+34.69
C-11	DRA 1 & 3 ENLARGEMENT
C-12	DRA 2 ENLARGEMENT
C-13	TREE PRESERVATION AND LAND CLEARING PLAN
C-14	TREE PRESERVATION AND LAND CLEARING PLAN (2)
C-15	LANDSCAPE PLAN

PREPARED BY:

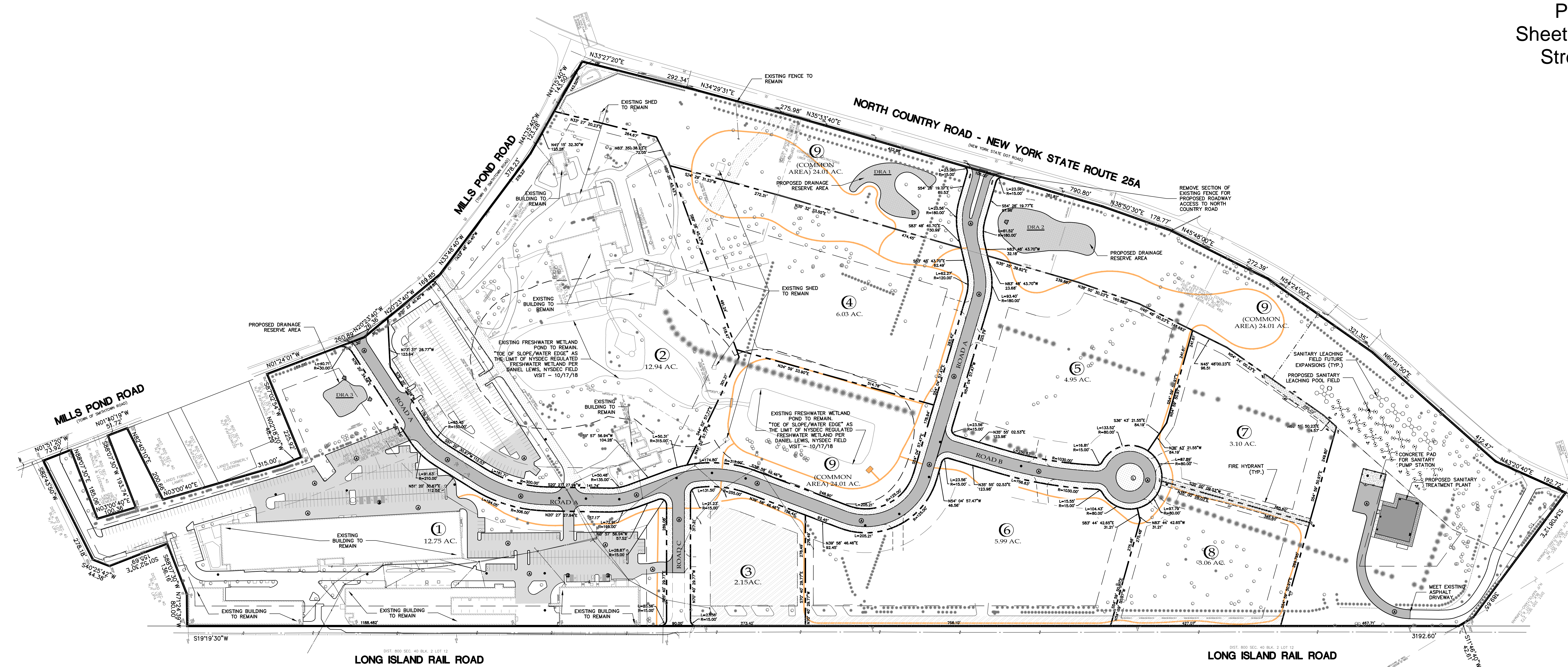


CAMERON ENGINEERING
& ASSOCIATES, LLP

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www.CameronEngineering.com

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T: (914) 721-8000
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NOVEMBER 2019



GENERAL NOTES

- 1. A PRE-CONSTRUCTION MEETING WITH THE ENGINEERING DEPARTMENT SHALL BE HELD TWO WEEKS (2) PRIOR TO THE START OF CONSTRUCTION. ANY WORK PERFORMED PRIOR TO THIS MEETING SHALL BE DEEMED UNACCEPTABLE AND REMOVED AS DIRECTED BY THE TOWN ENGINEER.
2. THE ENGINEERING DEPARTMENT SHALL BE NOTIFIED 72 HOURS PRIOR TO THE START OF CONSTRUCTION ARRANGE FOR THE INSPECTION OF ALL ITEMS RELATING TO GRADING, DRAINAGE, PAVING AND CURBING.
3. THE CONTRACTOR SHALL NOT START ANY WORK UNTIL A BOARD OF SITE PLAN REVIEW APPROVAL IS OBTAINED, A SIGNED SITE PLAN IS OBTAINED AND A PRE-CONSTRUCTION MEETING IS HELD WITH THE ENGINEERING DEPARTMENT.
4. ALL EXISTING CATCH BASINS AND STORM WATER DRAINAGE POOLS TO REMAIN MUST BE CLEANED.
5. A REPRODUCIBLE AS BUILT SITE PLAN MUST BE SUBMITTED TO THE ENGINEERING DEPARTMENT SHOWING ALL FINISHED GRADES, TOPS AND BOTTOMS OF CURBS, PIPE TYPES, INVERTS, RIM ELEVATIONS, TOP AND BOTTOM OF RETAINING WALLS AND DIAMETER AND DEPTHS OF STORM WATER STORAGE POOLS.
6. PROPERTY MONUMENTS SHALL BE INSTALLED AT LOCATIONS WHERE PROPERTY ABUTS MUNICIPAL RIGHT-OF-WAY LINES AND A MONUMENT CERTIFICATION LETTER FROM A LICENSED LAND SURVEYOR MUST BE SUBMITTED TO THE ENGINEERING DEPARTMENT.

SITE DATA:

APPLICANT / OWNER INFORMATION:
GYRODYNE, LLC
ONE FLOWERFIELD-SUITE 24
SAINT JAMES, NY 11780
ZONING CLASSIFICATION:
LI DISTRICT
MIN. LOT AREA 80,000 SF
MIN. FRONT YARD 50 FEET
MIN. SIDE & REAR YARD 8 FEET
MIN. BUFFER TO RESIDENTIAL DISTRICT 100 FEET
R-43 DISTRICT
MIN. LOT AREA 43,060 SF
MIN. LOT FRONTAGE AT SETBACK 150 FEET
MIN. ROAD FRONTAGE 40 FEET
MIN. FRONT YARD 60 FEET
MIN. REAR YARD 100 FEET
MIN. SIDE YARD WIDTH ANY ONE 24 FEET, BOTH 60 FEET
AREA OF SITE 74.98 AC
65.41 AC. IN ZONING DISTRICT LI
9.57 AC. IN ZONING DISTRICT R-43
TOTAL NUMBER OF PROPOSED LOTS: 9
SCTE: DISTRICT 0800, SECTION 40, BLOCK 2, TAX LOT 4, TAX LOT 13.3, TAX LOT 13.4, TAX LOT 14, & TAX LOT 15
DISTRICTS: SCHOOL DISTRICT - SMITHTOWN CENTRAL SCHOOL DISTRICT
WATER DISTRICT - ST. JAMES WATER DISTRICT
FIRE DISTRICT - ST. JAMES FIRE DISTRICT
POLICE DISTRICT - SUPPOLK COUNTY POLICE DEPARTMENT
POST OFFICE - ST. JAMES
CUT/FILL: CUT VOLUME: 37,887 CY
FILL VOLUME: 775 CY
NET TOTAL: 37,112 CY (CUT)

LEGEND (PROPOSED)

- ASPHALT PAVEMENT (A)
WATER/SEWER EASEMENT
GRASS SWALE
EXISTING ASPHALT PAVEMENT TO REMAIN UNTIL LOT DEVELOPMENT
PROPOSED LOT LINES
NATURE TRAIL
CONCRETE CURB
PARKING SPACE COUNT
ACCESSIBLE PARKING SPACE

LEGEND (EXISTING)

- PROPERTY LINE
GAS LINE
ELECTRIC LINE
WATER LINE
DRAINAGE LINE
OVERHEAD WIRE
CHAIN LINK FENCE
CATCH BASIN
HYDRANT
LIGHT POLE
SIGN

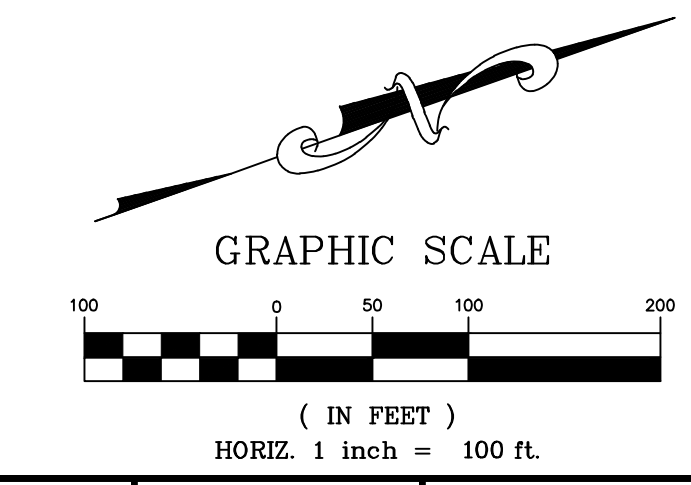


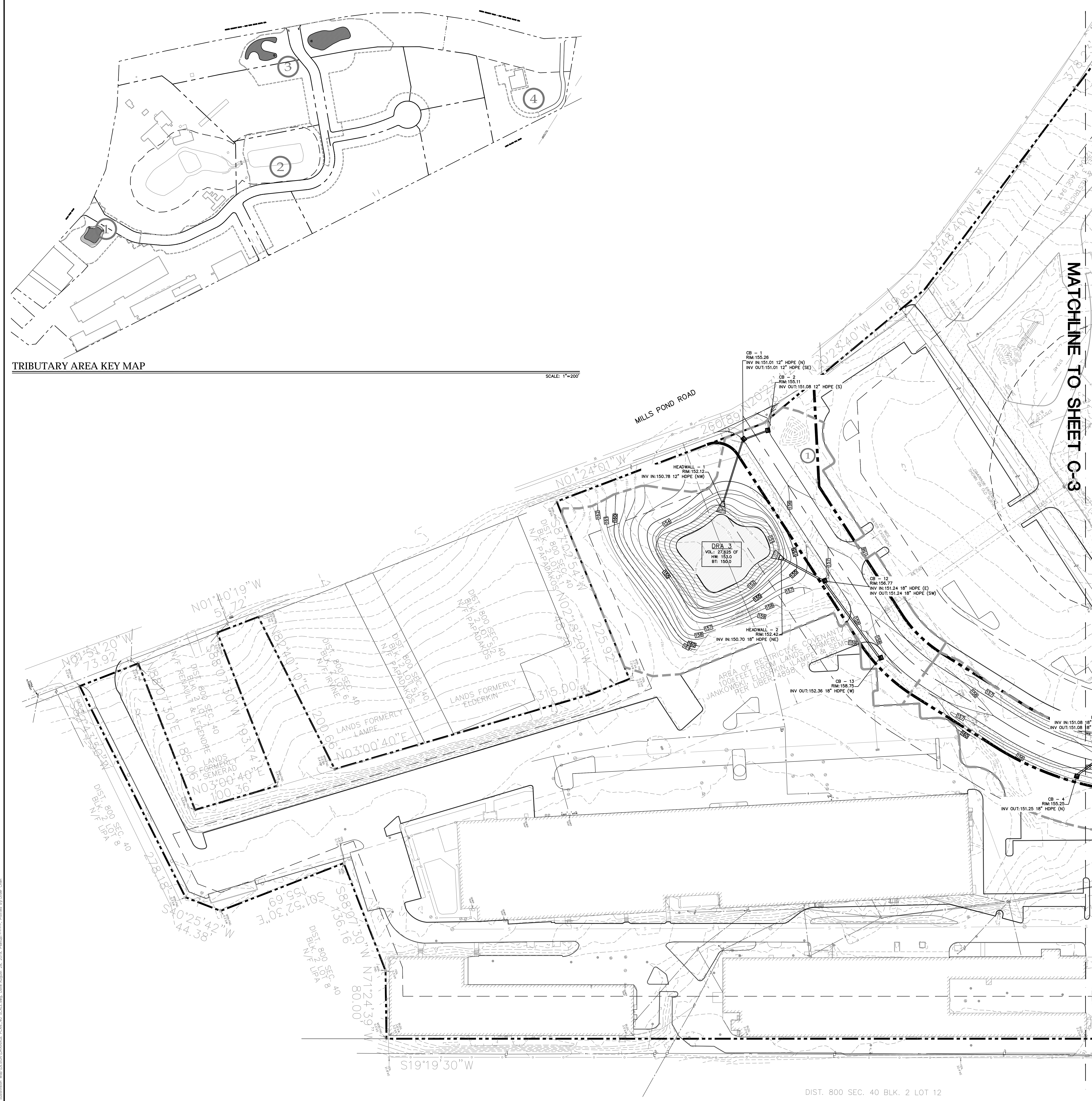
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CAMERON ENGINEERING & ASSOCIATES, LLP
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6300 Hempstead Turnpike, Suite 400, Westbury, NY 11591
300 Tappan Road, 4th Floor, Westbury, NY 11591
Tel: 516.337.4800, 516.337.8800, 516.337.8800
Fax: 516.337.4800, 516.337.8800, 516.337.8800
www.cameronengineering.com

PROJECT NAME: GYRODYNE, LLC MAP OF FLOWERFIELD SUBDIVISION
PROJECT FOR: 1 FLOWERFIELD SAINT JAMES, NEW YORK 11780

TITLE: OVERALL STREETS PLAN
DISCIPLINE: CIVIL

PROJECT NO.: CE338A-02
JOB NO.: CE338A-02
DATE: AUGUST 2019
SCALE: AS SHOWN
DRAWING NO.: C-1 SHEET 1 of 15



TRIBUTARY AREA KEY MAP

SCALE: 1"=200'

DRAINAGE CALCULATIONS

TOTAL DRAINAGE SHED AREA OF PROPOSED IMPROVEMENTS: 825,271 SF

A. SUB-SHED #1 (DRA 3):

SUB-SHED TRIBUTARY AREA:	79,767 SF
REQUIRED STORAGE:	
LANDSCAPED AREA:	67,832 SF x 0.3 x 8"/12" = 13,566 CF
PAVED AREA:	11,835 SF x 1.0 x 8"/12" = 7,890 CF
TOTAL REQUIRED SUB-SHED STORAGE:	= 21,456 CF
PROPOSED STORAGE:	
DRA 3 STORAGE VOLUME:	= 27,625 CF

B. SUB-SHED #2 (WETLAND POND):

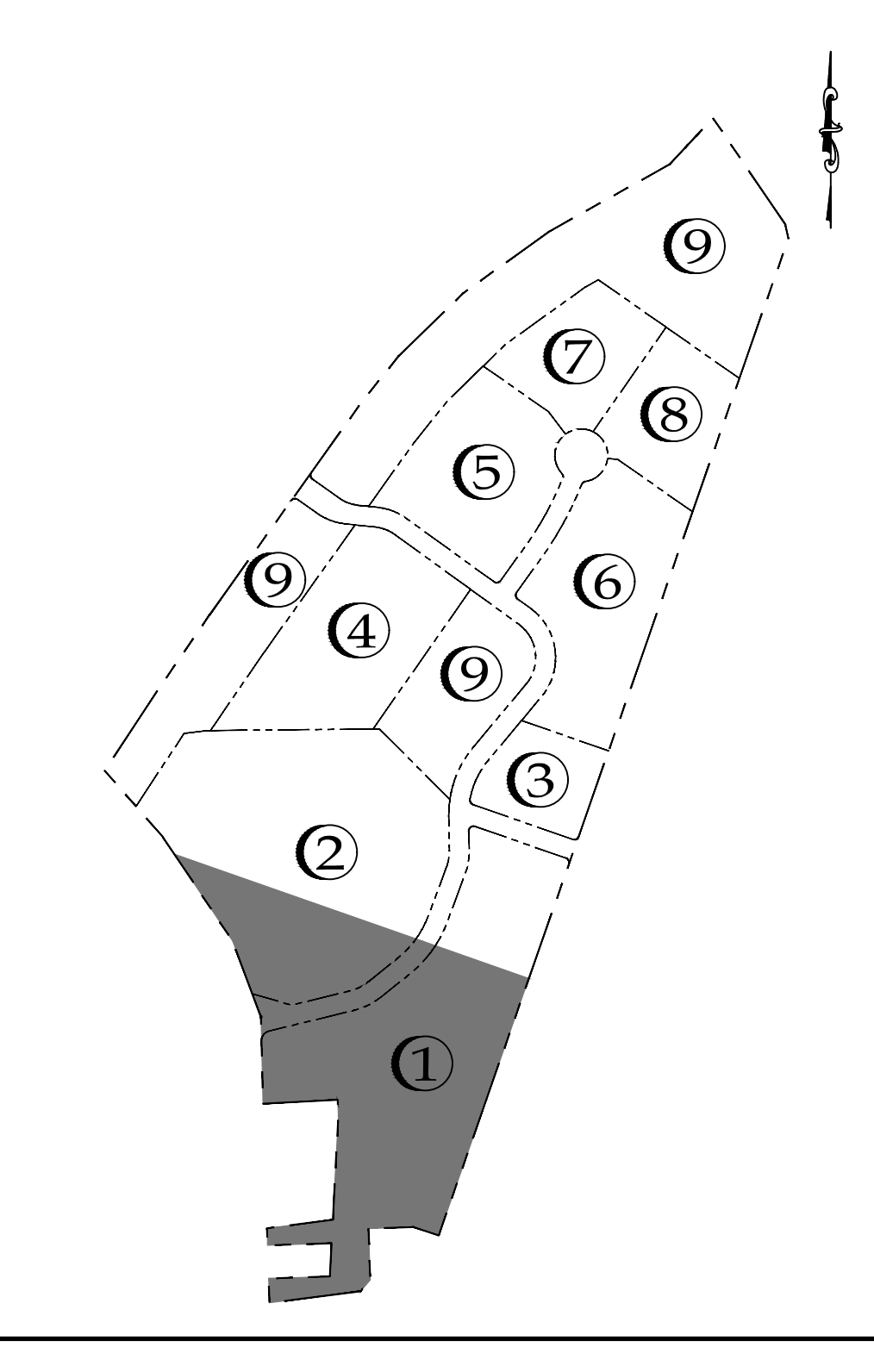
SUB-SHED TRIBUTARY AREA:	432,260 SF
REQUIRED STORAGE:	
LANDSCAPED AREA:	323,888 SF x 0.3 x 8"/12" = 64,778 CF
PAVED AREA:	74,854 SF x 1.0 x 8"/12" = 49,903 CF
POND AREA:	33,017 SF x 1.0 x 8"/12" = 22,345 CF
TOTAL REQUIRED SUB-SHED STORAGE:	= 137,026 CF
PROPOSED STORAGE:	
WETLAND POND STORAGE VOLUME:	= 75,538 CF
OVERFLOW VOLUME:	137,026 CF - 75,538 CF = 61,488 CF
OVERFLOW VOLUME IS CONVEYED TO DRA 1 AND 2.	

C. SUB-SHED #3 (DRA 1 & 2):

SUB-SHED TRIBUTARY AREA:	286,063 SF
REQUIRED STORAGE:	
LANDSCAPED AREA:	258,790 SF x 0.3 x 8"/12" = 51,758 CF
PAVED AREA:	27,273 SF x 1.0 x 8"/12" = 18,182 CF
OVERFLOW VOLUME FROM SUB-SHED #2:	= 61,488 CF
TOTAL REQUIRED SUB-SHED STORAGE:	= 131,428 CF
PROPOSED STORAGE:	
(12) - 12" DRIVELLS WITH 20' EFFECTIVE DEPTH:	12 x 100.88 CF/ft x 20 ft = 24,211 CF
DRA 1 STORAGE VOLUME:	= 50,225 CF
DRA 2 STORAGE VOLUME:	= 29,540 CF
TOTAL PROVIDED STORAGE VOLUME:	= 143,976 CF

D. SUB-SHED #4:

SUB-SHED TRIBUTARY AREA:	27,181 SF
REQUIRED STORAGE:	
PAVED AREA:	27,181 SF x 1.0 x 8"/12" = 18,121 CF
TOTAL REQUIRED SUB-SHED STORAGE:	= 18,121 CF
PROPOSED STORAGE:	
(8) - 12" DRIVELLS WITH 20' EFFECTIVE DEPTH:	8 x 100.88 CF/ft x 20 ft = 16,156 CF
TOTAL PROVIDED STORAGE VOLUME:	= 16,156 CF



VIEWPORT KEY MAP N.T.S.

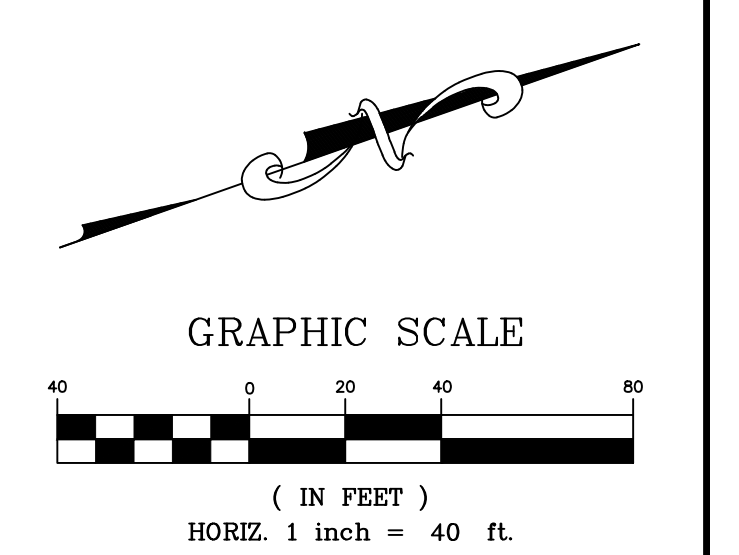
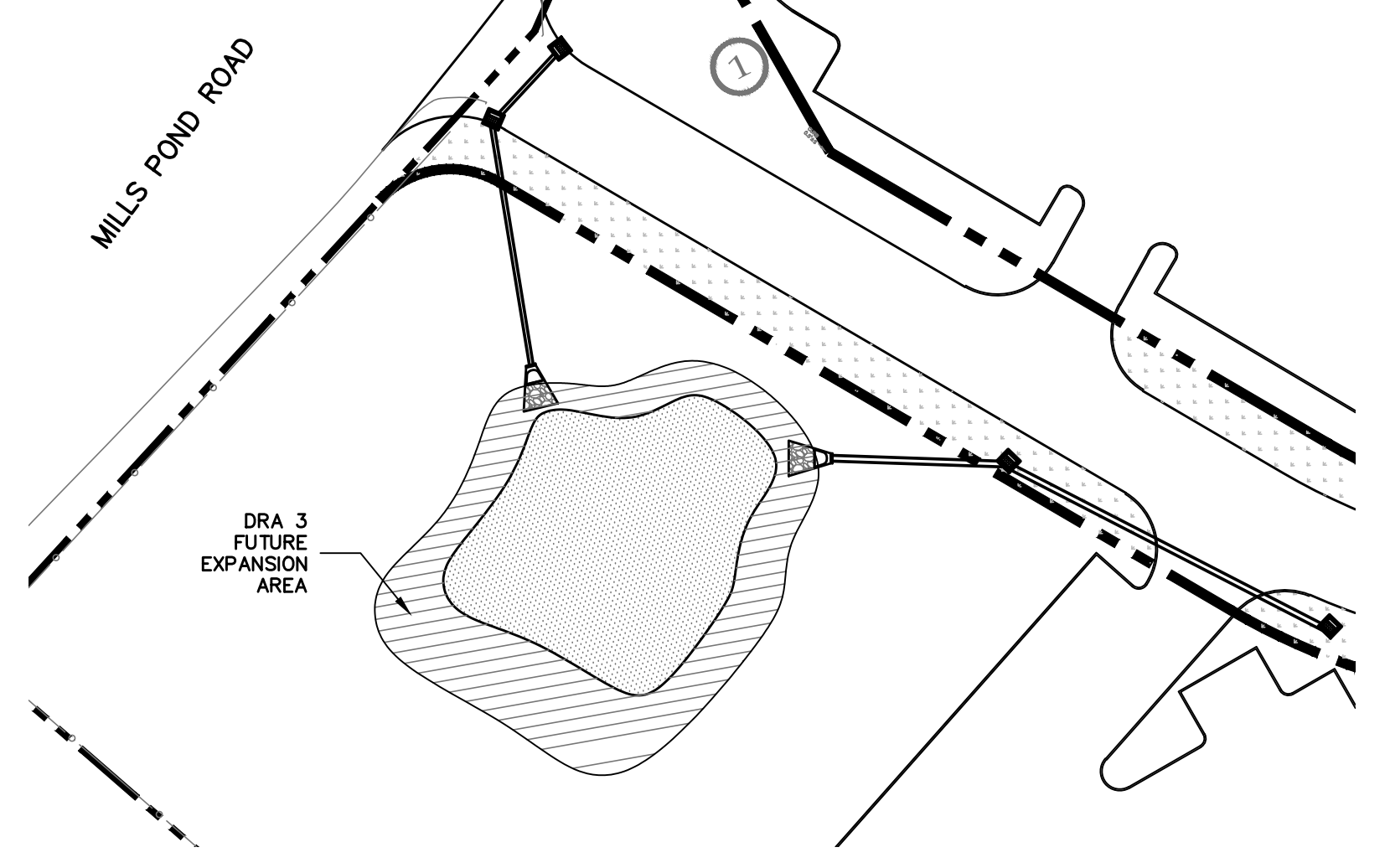
Page M-3
Sheet C-2 (Grading & Drainage Plan 1)

GRADING AND DRAINAGE NOTES

- STORM WATER MANAGEMENT SYSTEM IS DESIGNED TO RETAIN A TOTAL OF 8 INCHES OF RAINFALL WITHIN THE BOUNDARIES OF THE PROPOSED PUBLIC IMPROVEMENTS AND LANDS ADJACENT TO THE PUBLIC RIGHT-OF-WAY.
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE TOWN, COUNTY AND STATE LAWS AND APPLICABLE CODES.
- RUNOFF COEFFICIENTS:
PERVIOUS AREAS (ROOF, PAVED, WALKWAY) = 1.0
PERVIOUS AREAS (LANDSCAPED) = 0.30
- ALL INTERCONNECTING DRAINAGE PIPING BETWEEN CATCH BASIN AND MANHOLES SHALL BE MIN. 15" HOPE @ MIN. 0.2% OF SLOPE.
- ALL DRAINAGE STRUCTURES SHALL MEET TOWN OF SMITHTOWN AND SUFFOLK COUNTY STANDARDS.
- MASS GRADING FILL AREAS SHALL BE FIRST STRIPPED OF TOPSOIL AND MASS GRADING FILL SHALL BE COMPACTED IN 6 INCH LIFTS, COMPACTED TO MEET STANDARD PROCTOR DENSITY.
- ALL 1:2 AND 1:3 SLOPE AREAS WILL BE PROTECTED AGAINST EROSION DURING CONSTRUCTION AND PERMANENT GRASSING COVER SHALL BE ESTABLISHED SUCH THAT EROSION WILL BE PREVENTED.
- CREATE SMOOTH TRANSITIONS FROM PROPOSED GRADED AREAS TO EXISTING TERRAIN.
- NEW ASPHALT SURFACE SHALL PROVIDE A SMOOTH TRANSITION TO EXISTING PAVEMENT TO REMAIN. PAVEMENT OR OTHER DEBRIS SHALL BE USED OR INCLUDED IN BACKFILL MATERIALS.
- THE CONTRACTOR SHALL USE THE APPROPRIATE MEANS TO PREVENT SEDIMENT AND DEBRIS FROM WASHING TO ADJACENT AREAS, FURTHER SPECIFIED IN EROSION CONTROL NOTES AND DETAILS.
- ALL DISTURBED AREAS TO BE TOPSOILED, FINE GRADED AND SEEDDED.

FUTURE SYSTEM CAPACITY EXPANSION

TOTAL PROPOSED STORMWATER DETENTION CAPACITY:	265,297 CF
TOTAL STORMWATER RUNOFF VOLUME FOR 8-INCH STORM:	246,833 CF
PROPOSED DRAINAGE SYSTEM EXCESS CAPACITY:	18,464 CF
DRA 3 FUTURE SYSTEM CAPACITY:	28,697 CF
TOTAL:	47,161 CF



NO.	DATE	REVISION DESCRIPTION	BY

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 93 Turnpike Road, 1st Floor, Middle Plains, NY 08858
 Telephone: 845.336.8800
 Fax: 845.336.8801
 www.cateronengineering.com

PROJECT NAME:
**GYRODYNE, LLC
MAP OF FLOWERFIELD SUBDIVISION**

PROJECT FOR:
**1 FLOWERFIELD
SAINT JAMES, NEW YORK 11780**

TITLE:
GRADING & DRAINAGE PLAN 1

DISCIPLINE:
CIVIL

PROJECT ENGINEER:
JG

DESIGNED BY:
WS

DRAWN BY:
WS

CHECKED BY:
KMM

PROJECT NO.:
CE338A-02

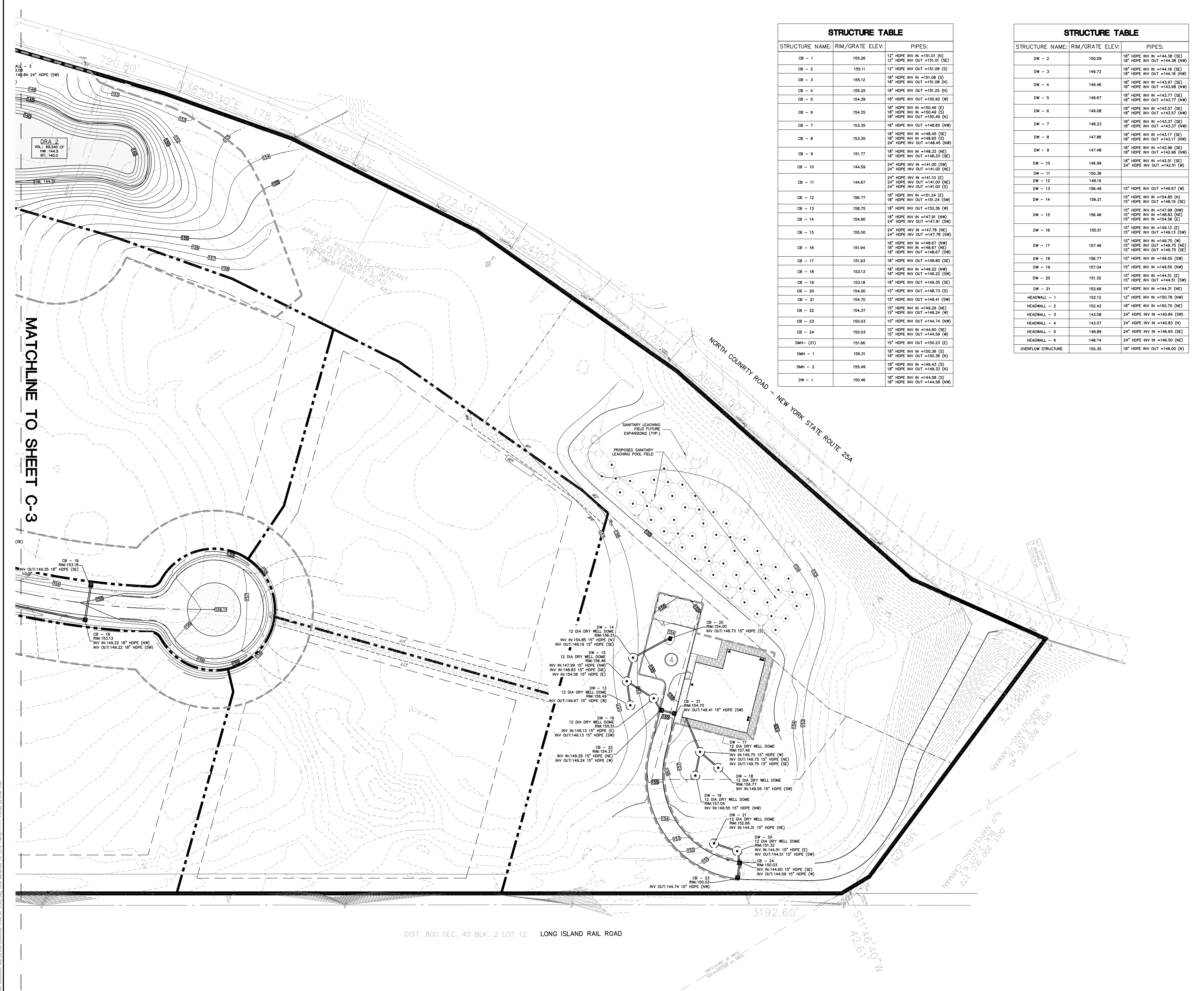
JOB NO.:
CE338A-02

DATE:
AUGUST 2019

SCALE:
AS SHOWN

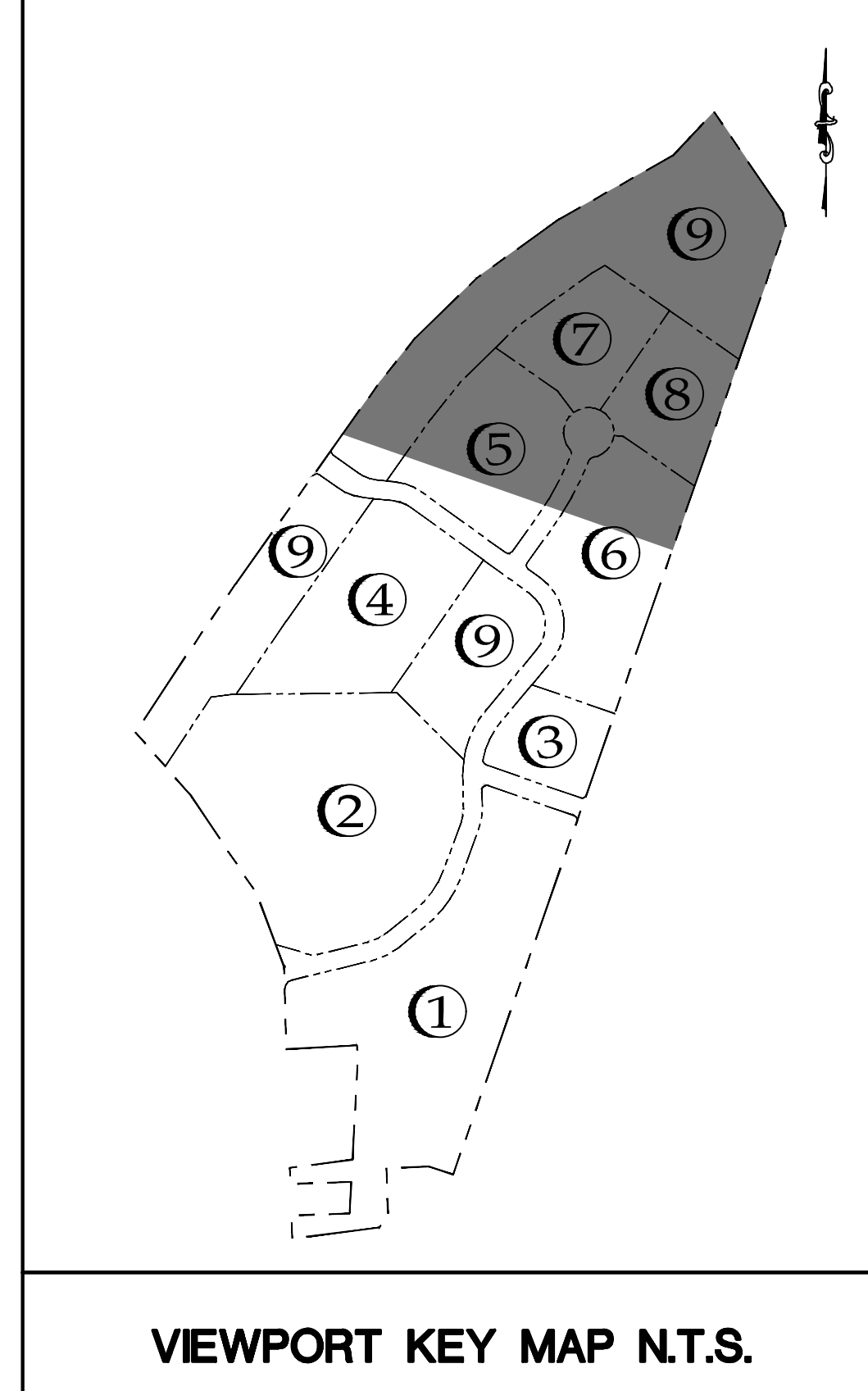
DRAWING NO.:
C-2

SHEET
2 of 15



STRUCTURE TABLE		
STRUCTURE NAME:	RIM/GRATE ELEV.:	PIPES:
CB - 1	155.26	12" HDPE INV IN =151.01 (N) 12" HDPE INV OUT =151.01 (SE)
CB - 2	155.11	12" HDPE INV IN =151.08 (S) 12" HDPE INV OUT =151.08 (SE)
CB - 3	155.12	18" HDPE INV IN =151.08 (S) 18" HDPE INV OUT =151.08 (N)
CB - 4	155.25	18" HDPE INV IN =151.25 (N) 18" HDPE INV OUT =151.25 (W)
CB - 5	154.39	18" HDPE INV IN =150.92 (W) 18" HDPE INV OUT =150.92 (SE)
CB - 6	154.35	18" HDPE INV IN =150.49 (E) 18" HDPE INV IN =150.49 (S) 18" HDPE INV IN =150.49 (N)
CB - 7	153.35	18" HDPE INV IN =148.85 (NW) 18" HDPE INV OUT =148.85 (SW)
CB - 8	153.35	18" HDPE INV IN =148.45 (SE) 18" HDPE INV IN =148.85 (S) 24" HDPE INV OUT =148.45 (NW)
CB - 9	151.77	18" HDPE INV IN =148.33 (NE) 18" HDPE INV OUT =148.33 (SE)
CB - 10	144.59	24" HDPE INV IN =141.00 (SW) 24" HDPE INV OUT =141.00 (NE)
CB - 11	144.67	24" HDPE INV IN =141.00 (E) 24" HDPE INV IN =141.00 (NE) 24" HDPE INV IN =141.00 (S)
CB - 12	156.77	18" HDPE INV IN =151.24 (E) 18" HDPE INV IN =151.24 (SW)
CB - 13	158.75	18" HDPE INV IN =152.36 (W) 18" HDPE INV OUT =152.36 (W)
CB - 14	154.90	18" HDPE INV IN =147.91 (NW) 24" HDPE INV OUT =147.91 (SW)
CB - 15	155.00	24" HDPE INV IN =147.78 (NE) 24" HDPE INV IN =147.78 (SW)
CB - 16	151.94	18" HDPE INV IN =148.67 (NW) 18" HDPE INV IN =148.67 (NE) 18" HDPE INV IN =148.67 (SE)
CB - 17	151.93	18" HDPE INV IN =148.80 (SE)
CB - 18	153.13	18" HDPE INV IN =149.22 (NW) 24" HDPE INV IN =149.22 (SW)
CB - 19	153.18	18" HDPE INV IN =149.35 (SE)
CB - 20	154.00	15" HDPE INV IN =148.73 (S) 15" HDPE INV OUT =148.73 (S)
CB - 21	154.70	15" HDPE INV IN =149.41 (SW)
CB - 22	154.37	15" HDPE INV IN =149.29 (NE) 15" HDPE INV IN =149.24 (W)
CB - 23	150.03	15" HDPE INV IN =144.74 (NW)
CB - 24	150.03	15" HDPE INV IN =144.60 (SE) 15" HDPE INV IN =144.59 (W)
DMH - (21)	151.66	15" HDPE INV IN =150.23 (E)
DMH - 1	155.31	18" HDPE INV IN =150.36 (S) 18" HDPE INV IN =150.36 (N)
DMH - 2	155.49	18" HDPE INV IN =149.43 (S) 18" HDPE INV IN =149.33 (N)
DW - 1	150.46	18" HDPE INV IN =144.58 (S) 18" HDPE INV IN =144.58 (NW)

STRUCTURE TABLE		
STRUCTURE NAME:	RIM/GRATE ELEV.:	PIPES:
DW - 2	150.09	18" HDPE INV IN =144.38 (SE) 18" HDPE INV IN =144.38 (NW)
DW - 3	149.72	18" HDPE INV IN =144.18 (SE) 18" HDPE INV IN =144.18 (NW)
DW - 4	149.46	18" HDPE INV IN =143.97 (SE) 18" HDPE INV IN =143.97 (NW)
DW - 5	149.67	18" HDPE INV IN =143.77 (SE) 18" HDPE INV IN =143.77 (NW)
DW - 6	149.08	18" HDPE INV IN =143.57 (SE) 18" HDPE INV IN =143.57 (NW)
DW - 7	148.23	18" HDPE INV IN =143.37 (SE) 18" HDPE INV IN =143.37 (NW)
DW - 8	147.86	18" HDPE INV IN =143.17 (SE) 18" HDPE INV IN =143.17 (NW)
DW - 9	147.48	18" HDPE INV IN =142.96 (SE) 18" HDPE INV IN =142.96 (NW)
DW - 10	146.99	24" HDPE INV IN =142.51 (SE) 24" HDPE INV IN =142.51 (NW)
DW - 11	150.36	
DW - 12	148.19	
DW - 13	156.49	15" HDPE INV IN =149.67 (W)
DW - 14	156.21	15" HDPE INV IN =154.85 (N) 15" HDPE INV IN =148.19 (S)
DW - 15	156.46	15" HDPE INV IN =147.99 (NW) 15" HDPE INV IN =148.83 (NE) 15" HDPE INV IN =154.56 (E)
DW - 16	155.51	15" HDPE INV IN =149.13 (E) 15" HDPE INV IN =149.13 (SW)
DW - 17	157.46	15" HDPE INV IN =149.75 (W)
DW - 18	156.77	15" HDPE INV IN =149.55 (SW)
DW - 19	157.04	15" HDPE INV IN =149.55 (NW)
DW - 20	151.32	15" HDPE INV IN =144.51 (E) 15" HDPE INV IN =144.51 (SW)
DW - 21	152.66	12" HDPE INV IN =144.31 (NE)
HEADWALL - 1	152.12	12" HDPE INV IN =150.78 (NW)
HEADWALL - 2	152.42	24" HDPE INV IN =150.70 (NE)
HEADWALL - 3	143.08	24" HDPE INV IN =140.84 (SW)
HEADWALL - 4	143.07	24" HDPE INV IN =140.83 (N)
HEADWALL - 5	148.89	24" HDPE INV IN =146.65 (SE)
HEADWALL - 6	148.74	24" HDPE INV IN =146.50 (NE)
OVERFLOW STRUCTURE	150.35	18" HDPE INV IN =146.00 (N)

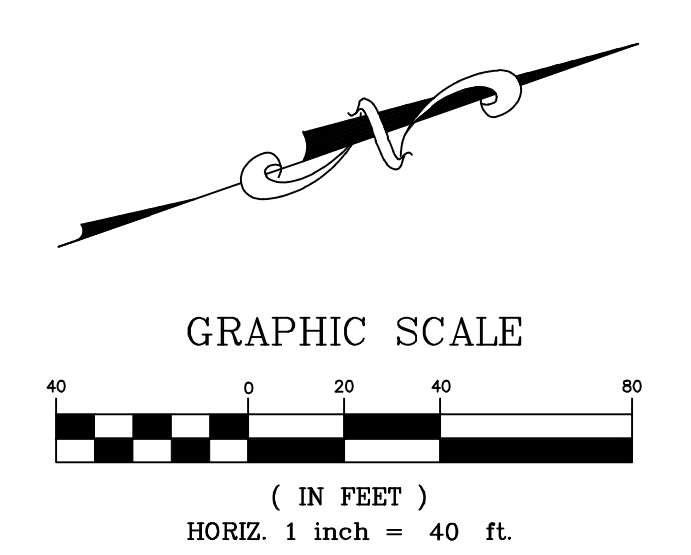


VIEWPORT KEY MAP N.T.S.

Page M-5
Sheet C-4 (Grading & Drainage Plan 3)

MATCHLINE TO SHEET C-3

DIST. 800 SEC. 40 BLK. 2 LOT 12 LONG ISLAND RAIL ROAD



NO.	DATE	REVISION DESCRIPTION	BY

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**GYRODYNE, LLC
MAP OF FLOWERFIELD SUBDIVISION**

PROJECT FOR:
**1 FLOWERFIELD
SAINT JAMES, NEW YORK 11780**

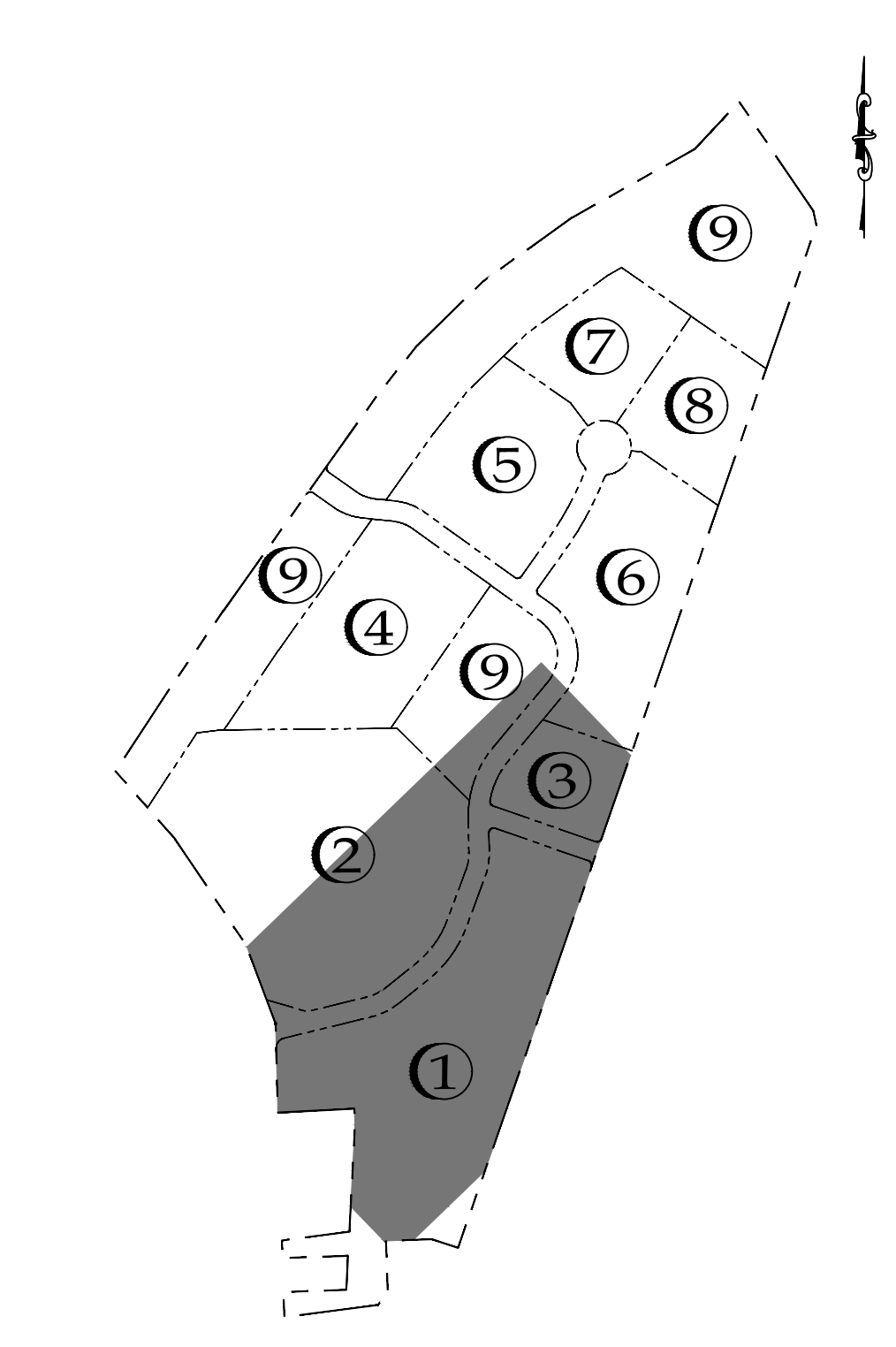
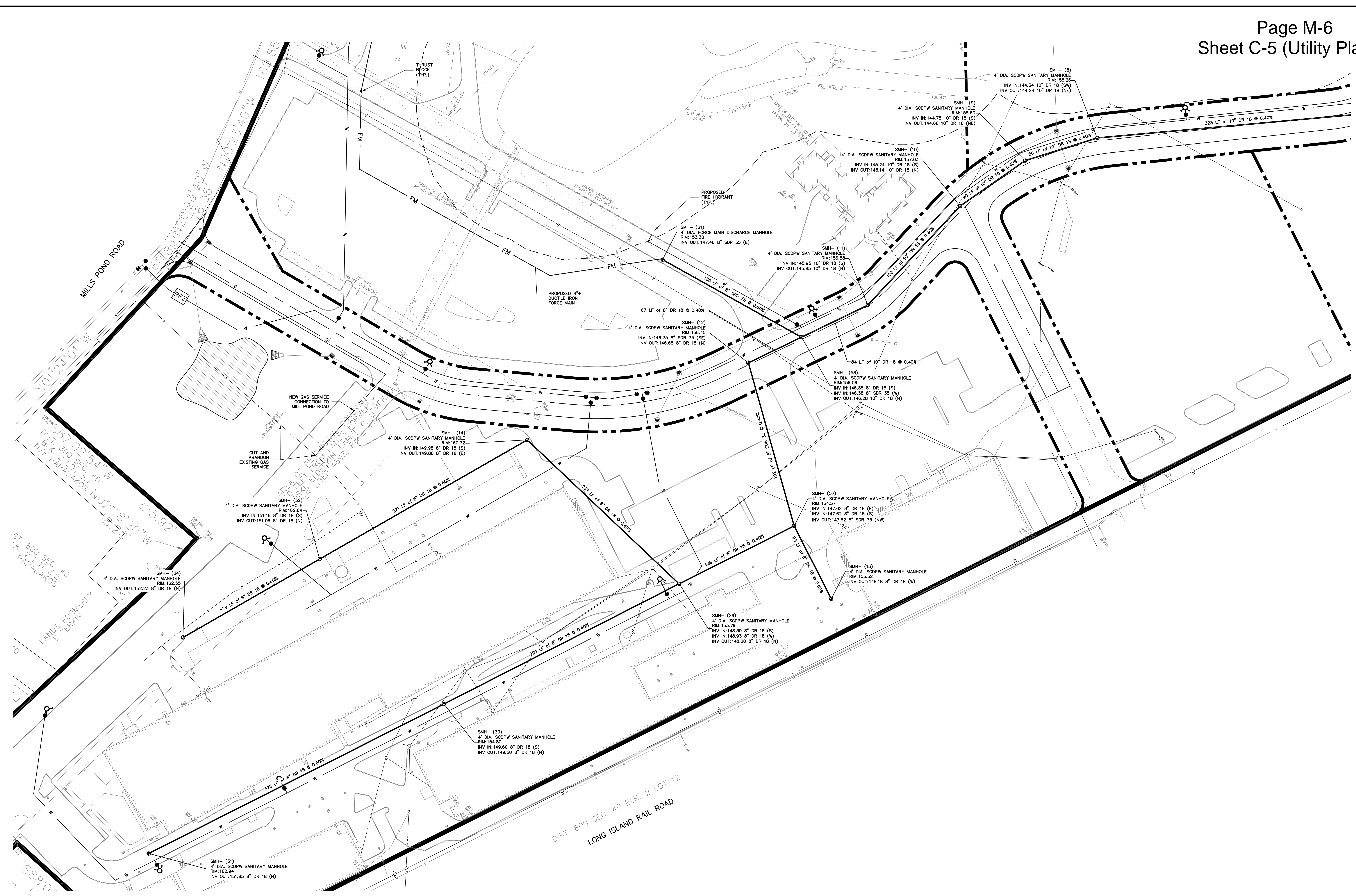
TITLE:
GRADING & DRAINAGE PLAN 3

DISCIPLINE:
CIVIL

PROJECT ENGINEER:
JG
DESIGNED BY:
WS
DRAWN BY:
WS
CHECKED BY:
KMM

PROJECT NO.:
CE338A-02
JOB NO.:
CE338A-02
DATE:
AUGUST 2019
SCALE:
AS SHOWN

DRAWING NO.:
C-4
SHEET
4 of 15



VIEWPORT KEY MAP N.T.S.

SANITARY SEWER NOTES

- 1. THIS PROPERTY IS LOCATED WITHIN THE SUFFOLK COUNTY DEPARTMENT OF PUBLIC WORKS (SCDPW) SEWER DISTRICT.
2. THE DEVELOPER/GENERAL SUB-CONTRACTOR SHALL INSTALL THE SANITARY SEWERS IN ACCORDANCE WITH SCDPW STANDARD SPECIFICATIONS AND DETAILS FOR THE CONSTRUCTION OF SANITARY SEWERS...
13. ALL WORKMANSHIP AND MATERIALS FOR SEWER CONSTRUCTION INCLUDED IN THIS PROJECT SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE SCDPW'S SPECIFICATIONS FOR SEWER CONSTRUCTION...
14. SANITARY GRAVITY LINES SHALL BE LAID A MINIMUM DISTANCE OF 10.0' HORIZONTALLY AND 1.5' VERTICALLY BELOW ANY EXISTING OR PROPOSED WATER MAIN AND STORMWATER DRAINAGE PIPE.

MARKING TAPE NOTES

- A. SCOPE THE CONTRACTOR SHALL FURNISH AND INSTALL AN UNDERGROUND MARKING TAPE ALONG ALL SEWER LINES, MAINS AND HOUSE CONNECTIONS.
B. MATERIALS THE MATERIAL SHALL BE SOLID PLASTIC TAPE WITH A MINIMUM THICKNESS OF 4.5 MIL. THE TAPE SHALL BE RESISTANT TO ALKALIS, ACIDS AND OTHER DESTRUCTIVE ELEMENTS. THE TAPE SHALL BE GREEN IN COLOR, 3" MIN. WIDTH, MARKED WITH THE WORDS "CAUTION - SANITARY SEWER." THE WARNING SHALL BE REPEATED EVERY 16" - 36".
C. INSTALLATION AFTER PARTIALLY BACKFILLING AND LEVELING THE TRENCHES TO A HEIGHT OF 18" - 24" ABOVE THE CROWN OF PIPE, THE ROLL OF TAPE SHALL BE MOUNTED ON A WHEEL AND SPREAD ABOVE THE PREPARED SURFACE AS STRAIGHT AS POSSIBLE. THE TAPE SHALL BE HELD IN POSITION BY ADDING BACKFILL WITH HAND SHOVELS BEFORE USING MECHANICAL EQUIPMENT TO FINISH THE BACK FILL.

LEGEND table with symbols for PROPERTY LINE, WATER SERVICE, SANITARY SERVICE, NATURAL GAS, ELECTRIC, SANITARY MANHOLE, UTILITY CROSSING NUMBER, FIRE HYDRANT, REDUCED PRESSURE ZONE ASSEMBLY AND ENCLOSURE.

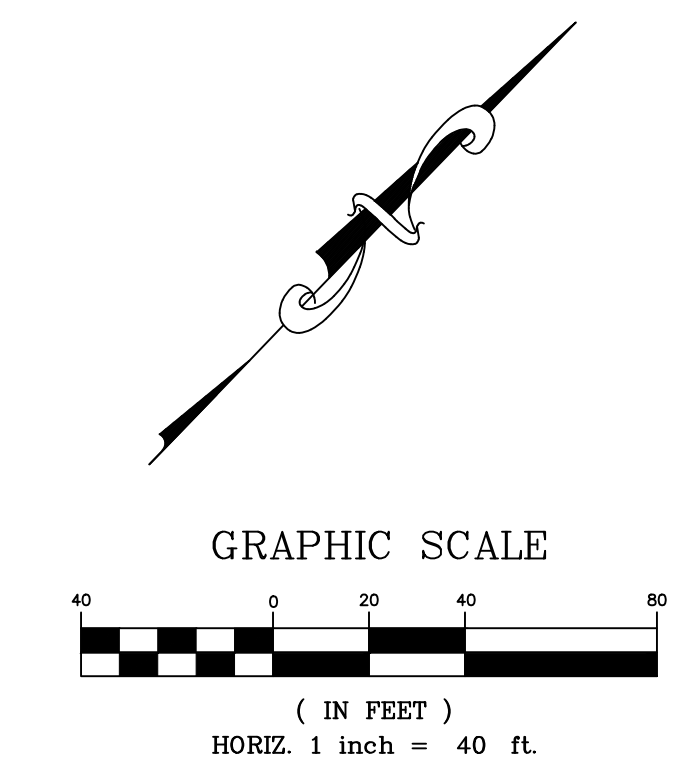
EXISTING LEGEND table with symbols for A.S. UNIT, OVERHEAD WIRES, UTILITY POLE, GUY WIRE, SIGN, DRAINAGE INLET, LIGHT POLE, HYDRANT, WATER VALVE, WATER METER, IRRIGATION CONTROL VALVE, ELECTRIC MANHOLE, ELECTRIC BOX, TELEPHONE MANHOLE, TELEPHONE BOX, CABLE BOX, MANHOLE, DEAN MANHOLE, SEWER MANHOLE.

REVISION table with columns for NO., DATE, REVISION DESCRIPTION, and INT.

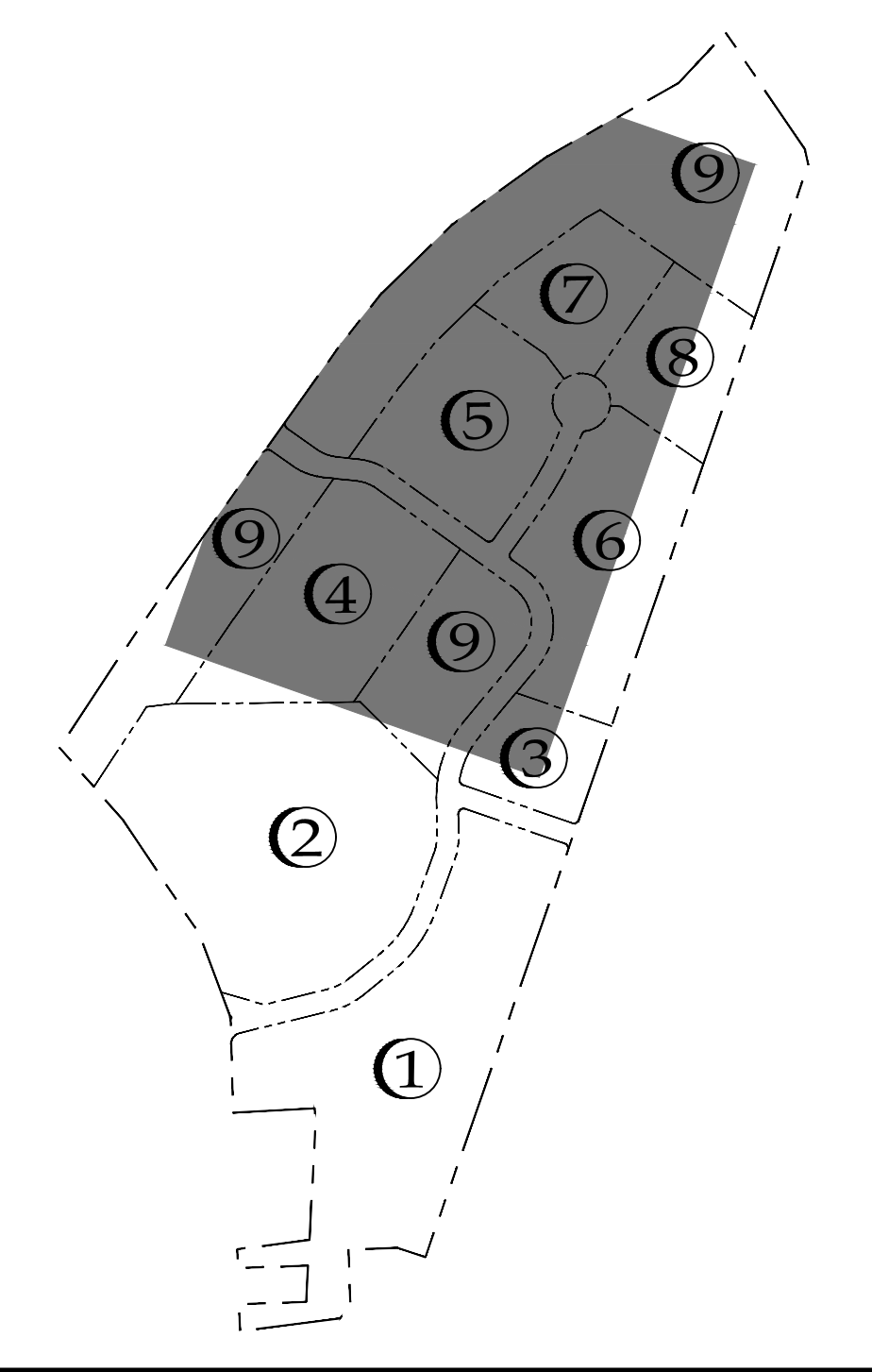
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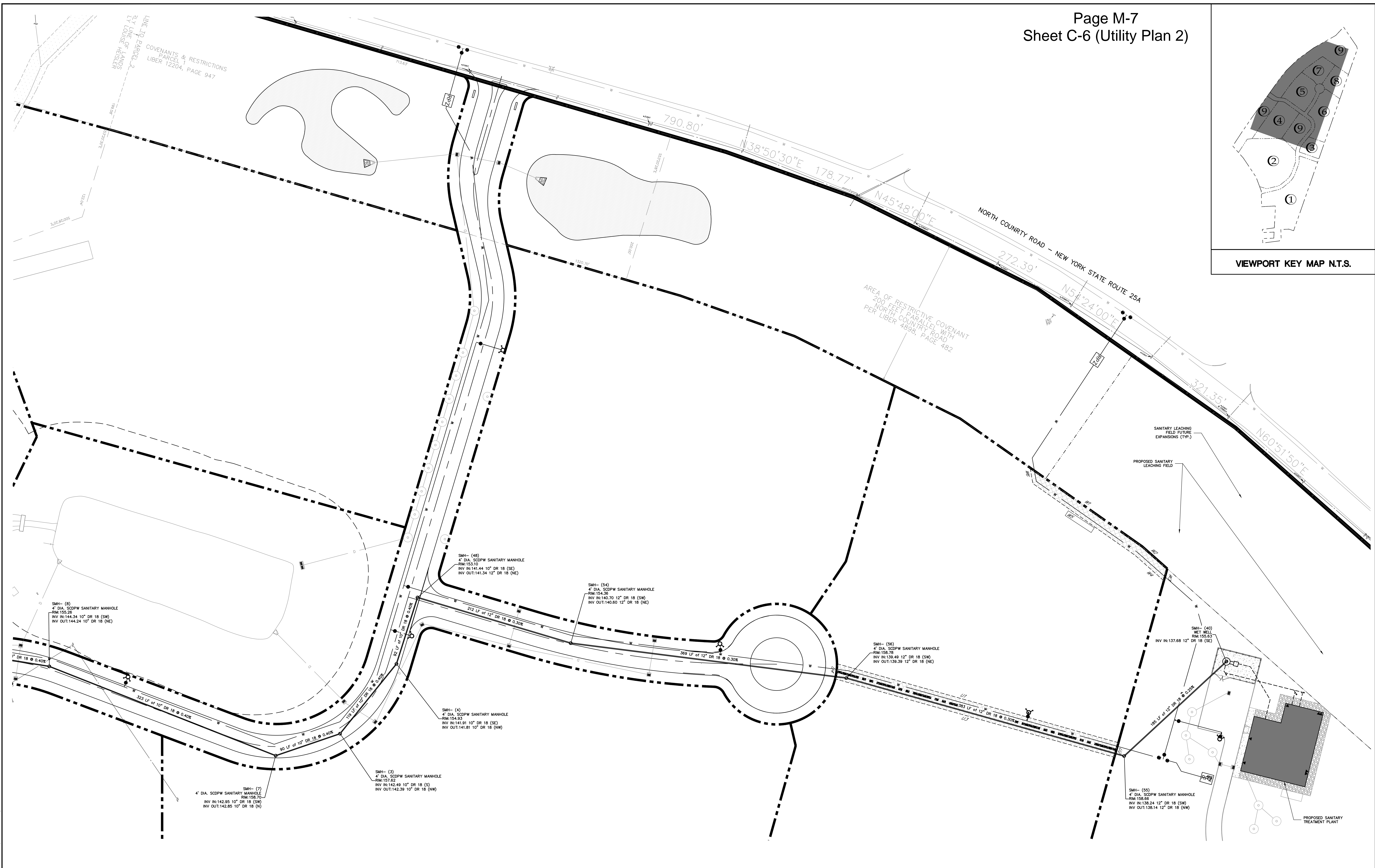
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VIEWPORT KEY MAP N.T.S.



LEGEND:

PROPERTY LINE	---
WATER SERVICE	W
SANITARY SERVICE	S
NATURAL GAS	G
ELECTRIC	E
ELECTRIC	CTV
SANITARY MANHOLE	⊙
UTILITY CROSSING NUMBER	⊕
FIRE HYDRANT	⊕
REDUCED PRESSURE ZONE ASSEMBLY AND ENCLOSURE	RPZ

EXISTING LEGEND

A.C. UNIT	⊕
OVERHEAD WIRES	---
UTILITY POLE	⊕
SOFT WIRE	---
SOIL	---
DRAINAGE RIET	---
LIGHT POLE	⊕
HYDRANT	⊕
WATER VALVE	⊕
WATER METER	⊕
IRRIGATION CONTROL VALVE	⊕
ELECTRIC MANHOLE	⊕
ELECTRIC BOX	⊕
TELEPHONE MANHOLE	⊕
TELEPHONE BOX	⊕
CABLE BOX	⊕
MANHOLE	⊕
DRAIN MANHOLE	⊕
SEWER MANHOLE	⊕

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 CENY000001

PROJECT NAME:
**GYRODYNE, LLC
MAP OF FLOWERFIELD SUBDIVISION**

PROJECT FOR:
**1 FLOWERFIELD
SAINT JAMES, NEW YORK 11780**

TITLE:
UTILITY PLAN 2

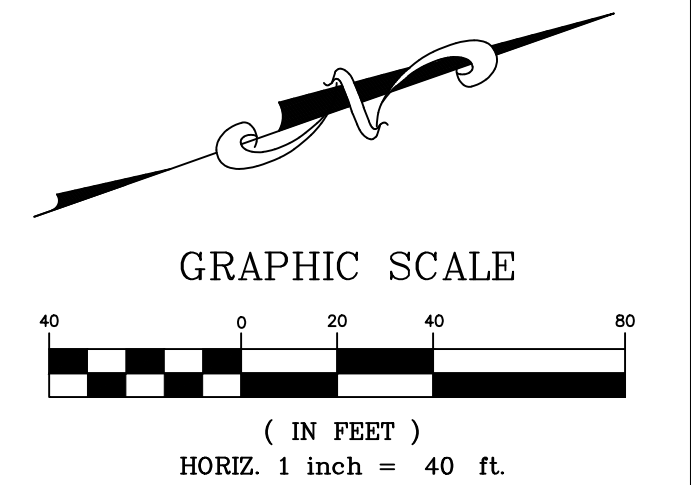
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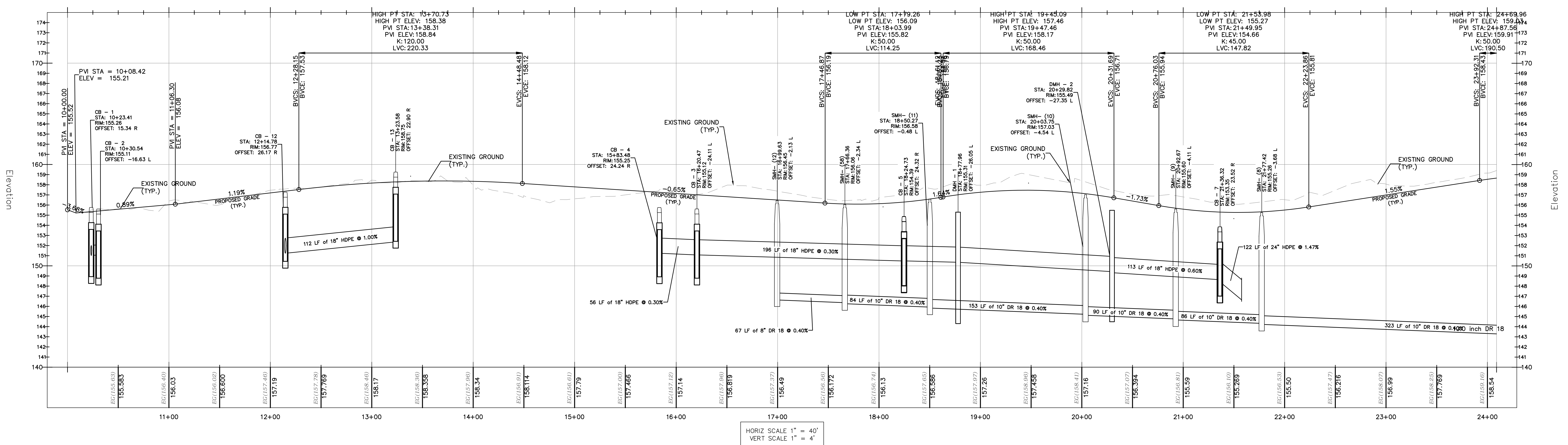
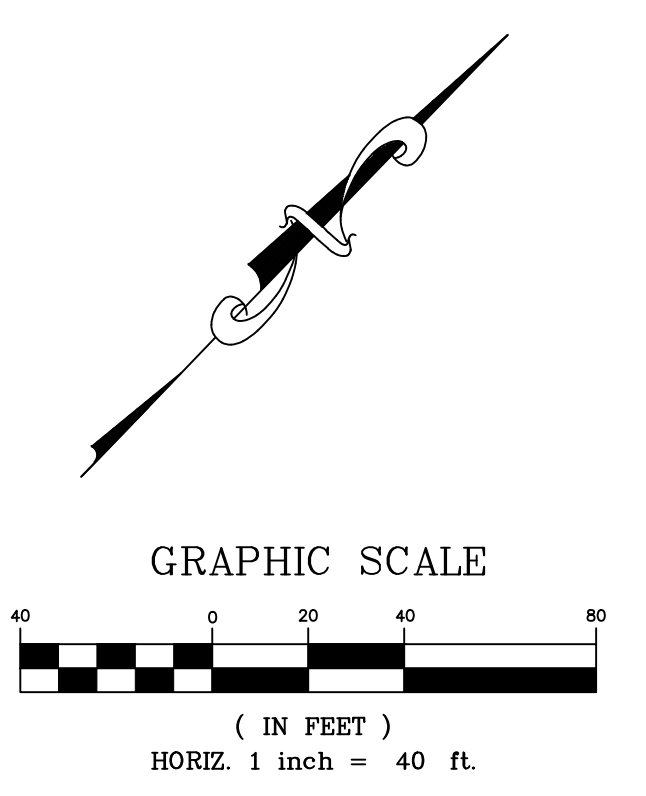
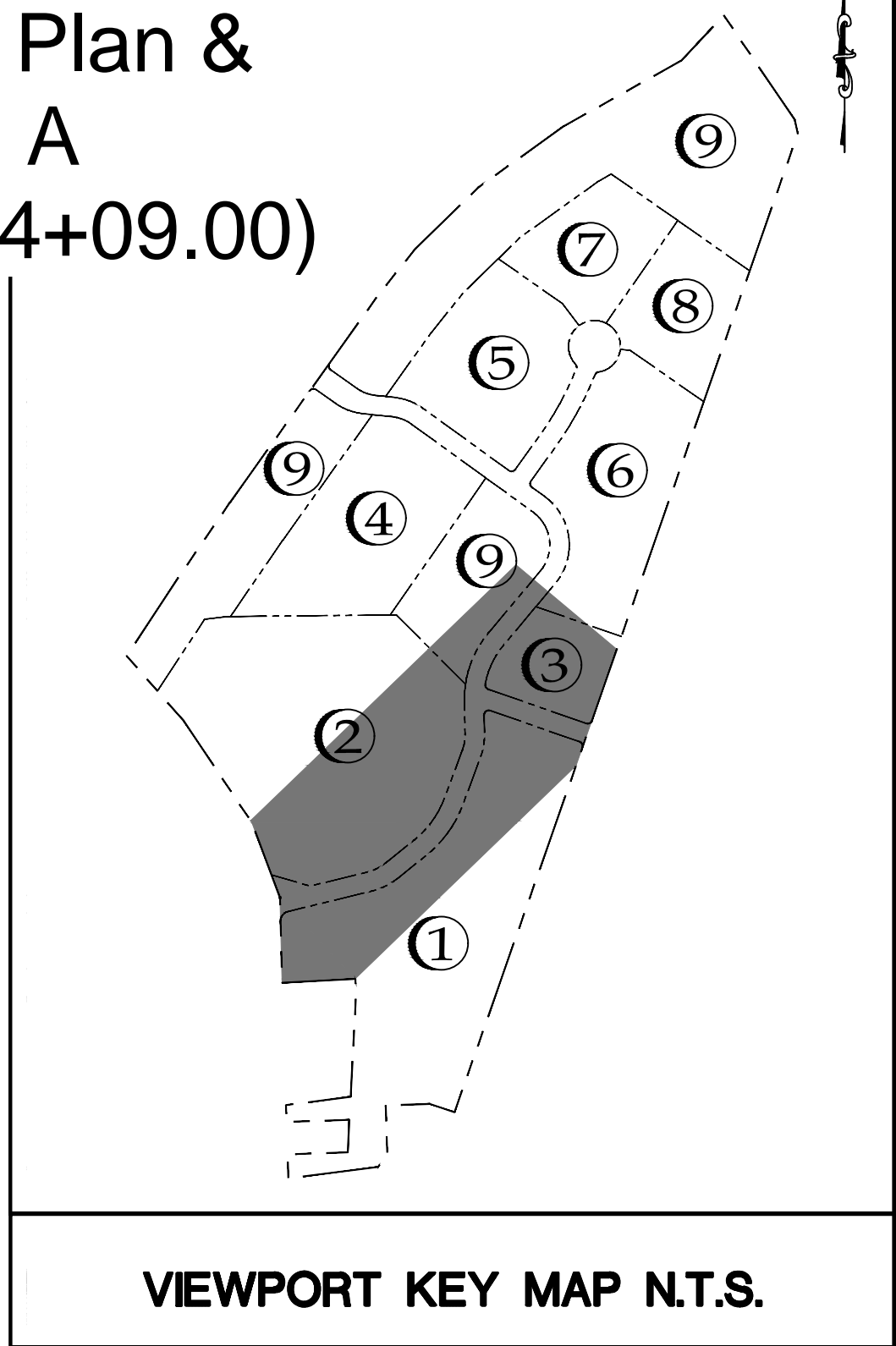
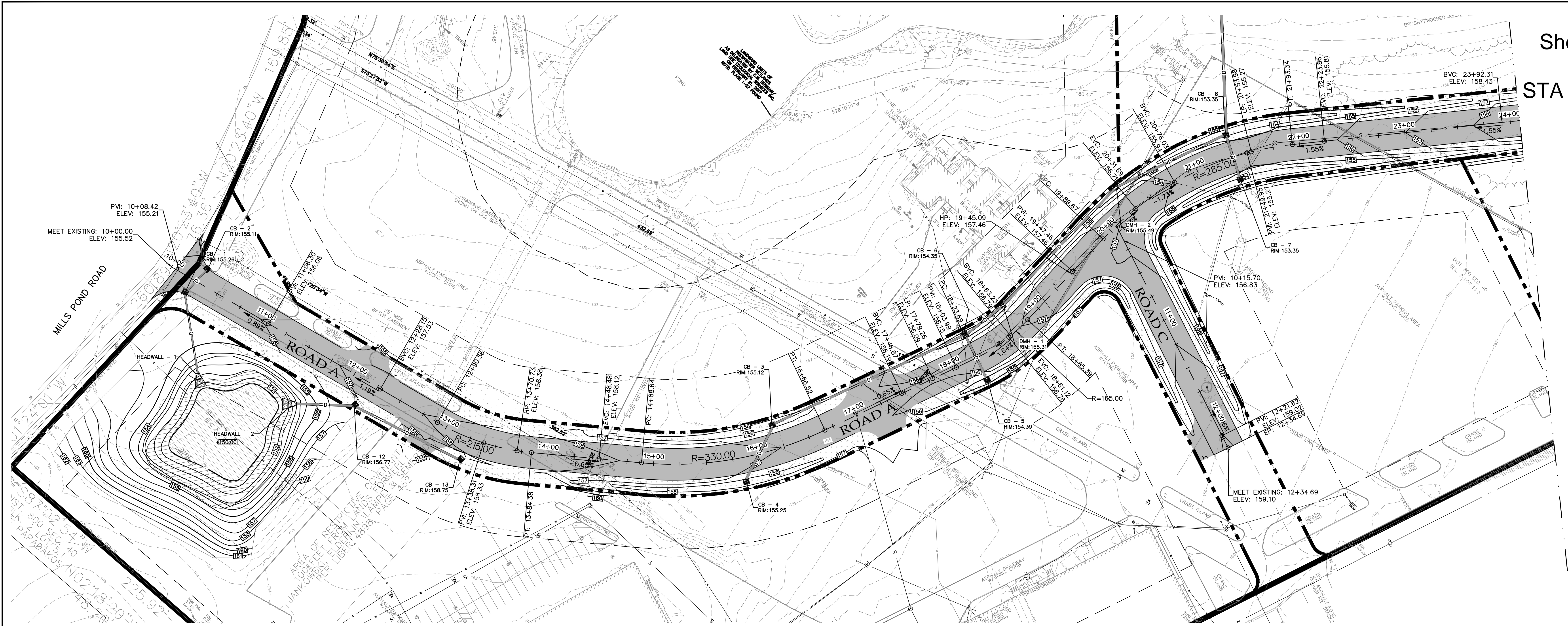
PROJECT ENGINEER:
JG
DESIGNED BY:
WS
DRAWN BY:
WS
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KMM

PROJECT NO.
CE338A-02
JOB NO.
CE338A-02
DATE:
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SCALE:
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PROJECT NO.
CE338A-02
SHEET
6 of 15

C-6





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MAP OF FLOWERFIELD SUBDIVISION**

PROJECT FOR: **1 FLOWERFIELD
SAINT JAMES, NEW YORK 11780**

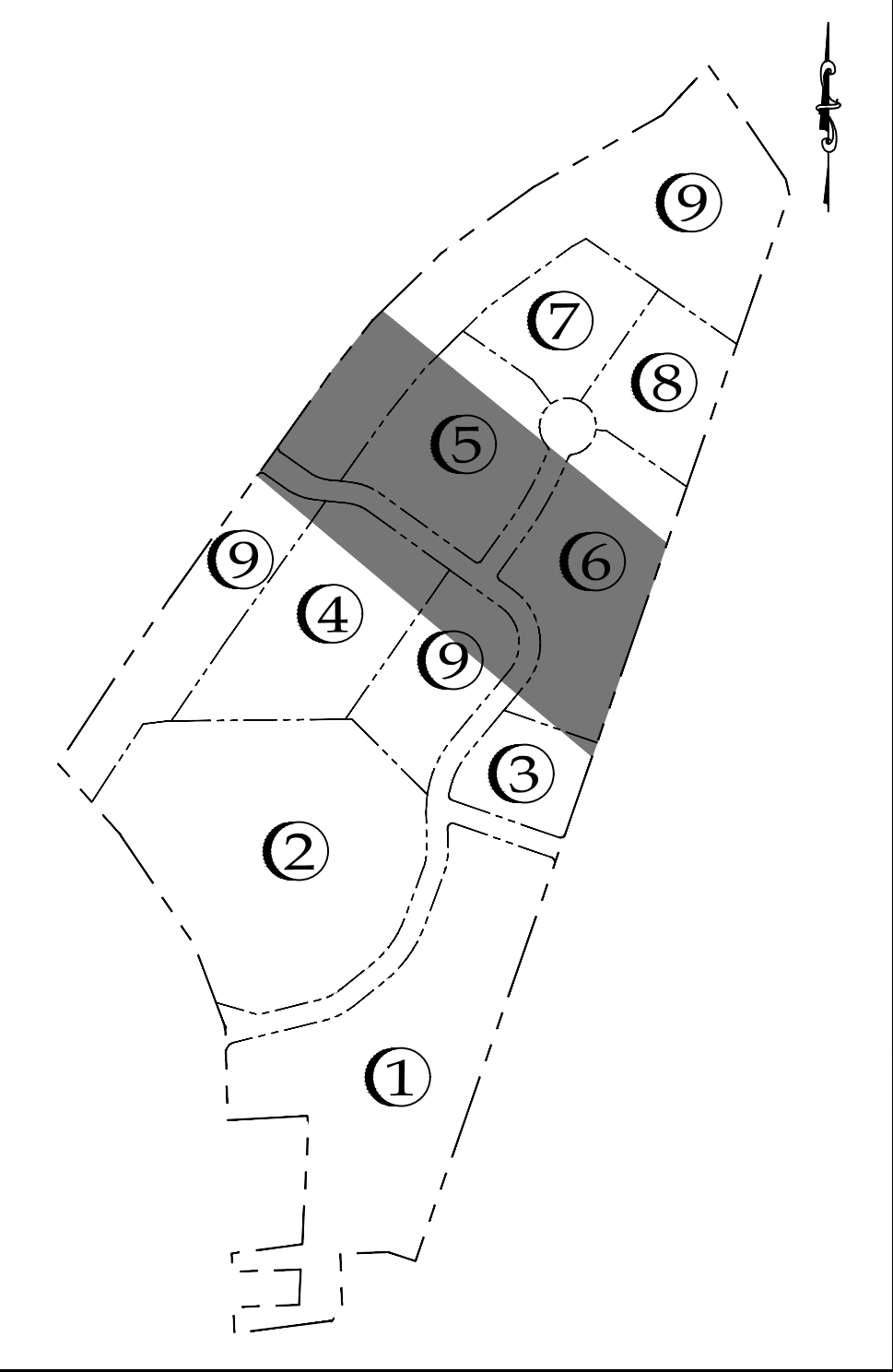
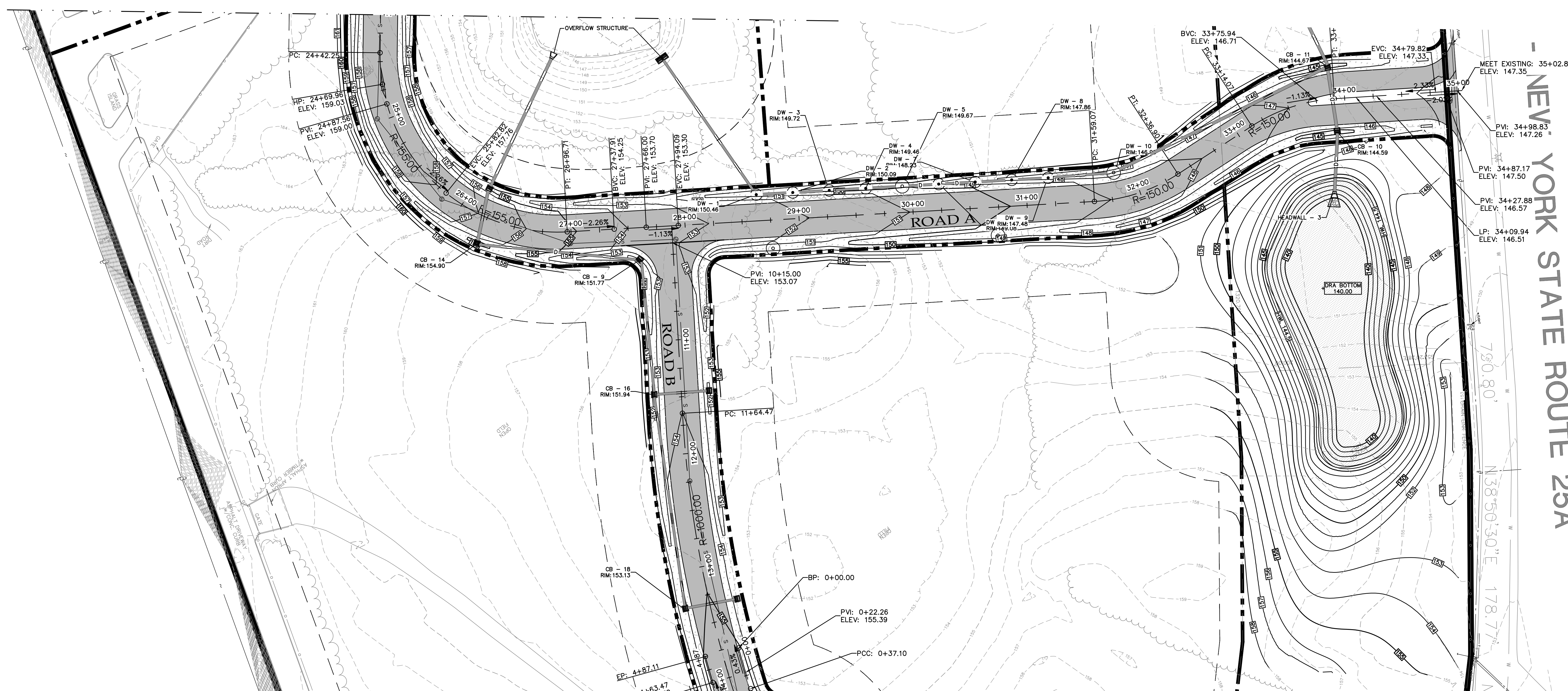
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- STA 10+00.00 TO STA
24+09.00**

DISCIPLINE: **CIVIL**

PROJECT ENGINEER: JIG
DESIGNED BY: WS
DRAWN BY: WS
CHECKED BY: KMM

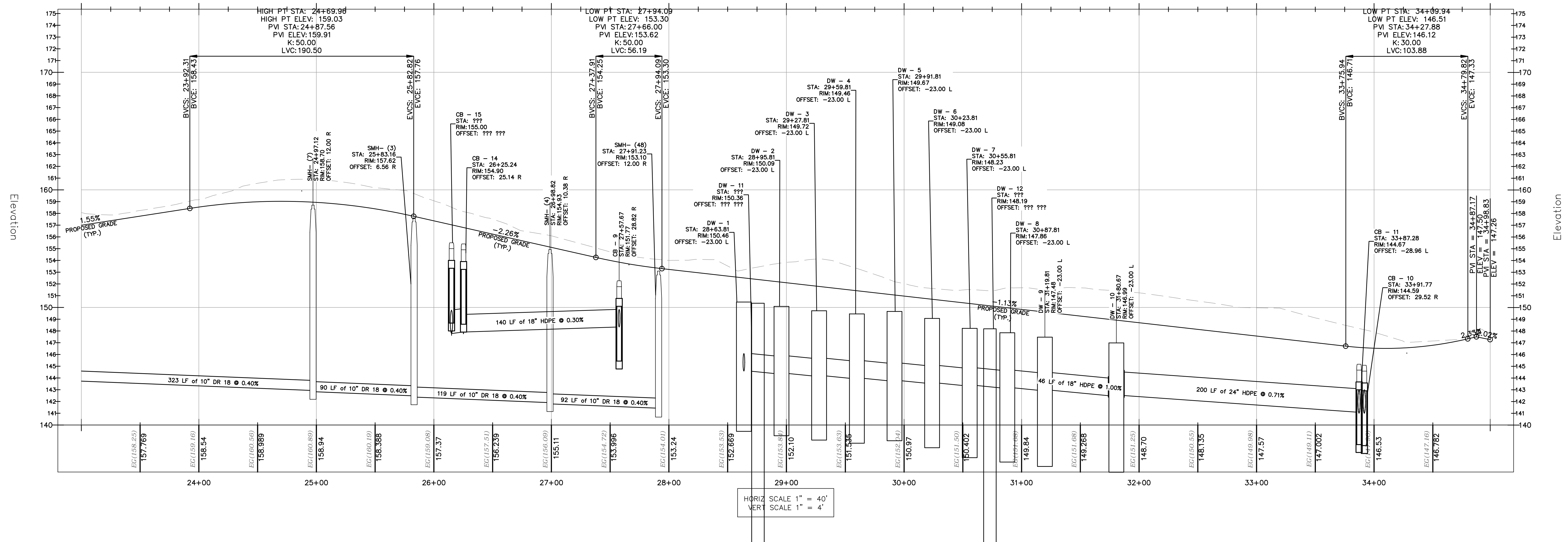
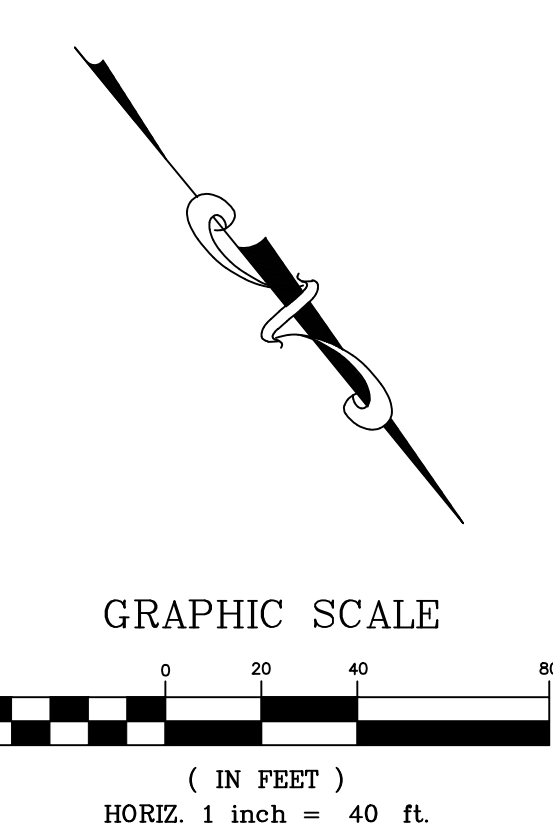
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JOB NO.: CE338A-02
DATE: AUGUST 2019
SCALE: AS SHOWN

DRAWING NO.: **C-7**
SHEET 7 of 15



VIEWPORT KEY MAP N.T.S.

Page M-9
Sheet C-8 (Road Plan & Profile)
Road A
- STA 24+09.00 to 35+02.03



HORIZ SCALE 1" = 40'
VERT SCALE 1" = 4'

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MAP OF FLOWERFIELD SUBDIVISION**

PROJECT NO:
**1 FLOWERFIELD
SAINT JAMES, NEW YORK 11780**

TITLE:
**ROAD PLAN & PROFILE ROAD A
- STA 24+09.00 TO STA
35+02.03**

DISCIPLINE:
CIVIL

PROJECT ENGINEER:
JIG

DESIGNED BY:
WS

DRAWN BY:
WS

CHECKED BY:
KMM

PROJECT NO.:
CE338A-02

JOB NO.:
CE338A-02

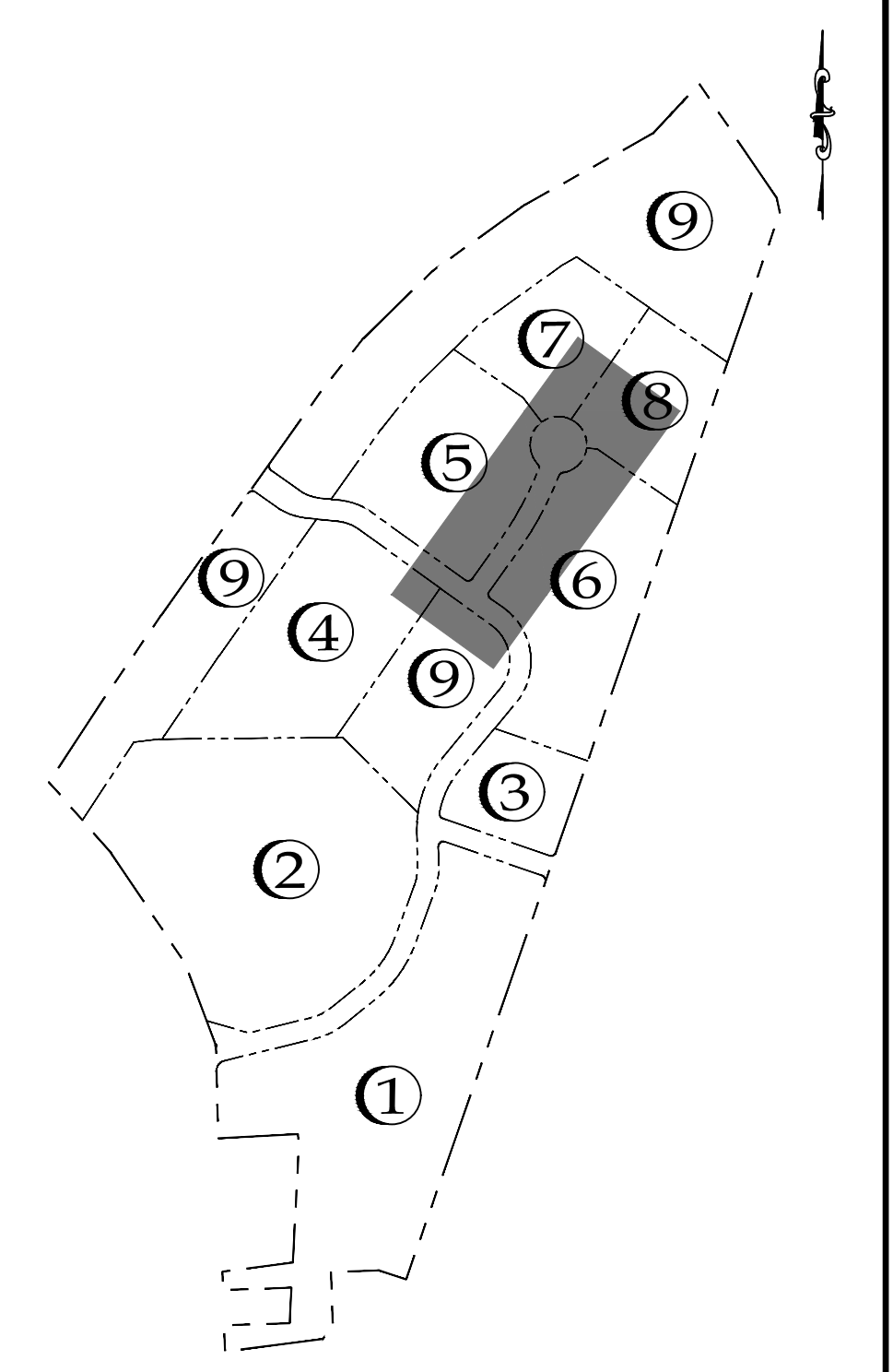
DWG. NO.:
AUGUST 2019

SCALE:
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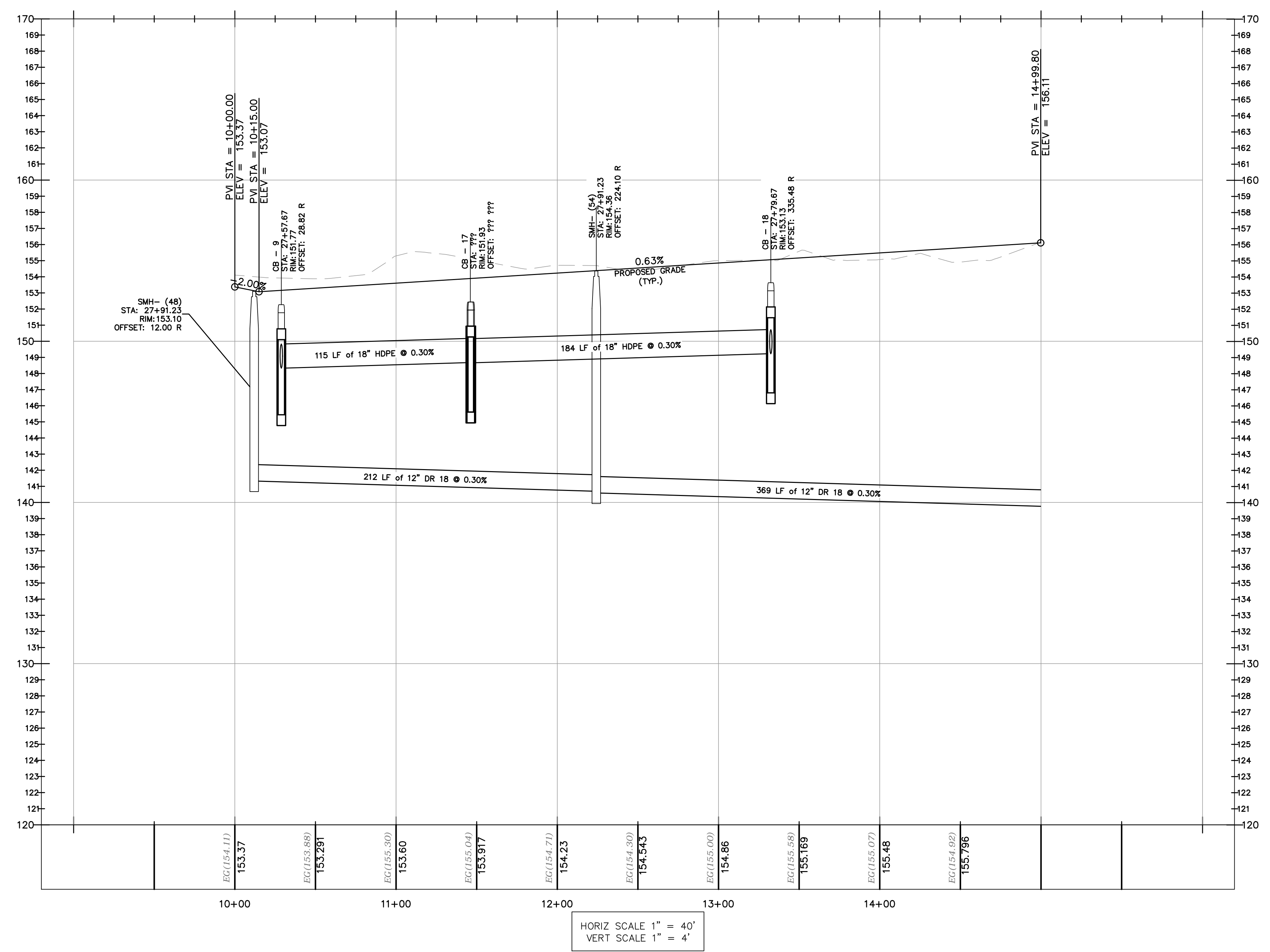
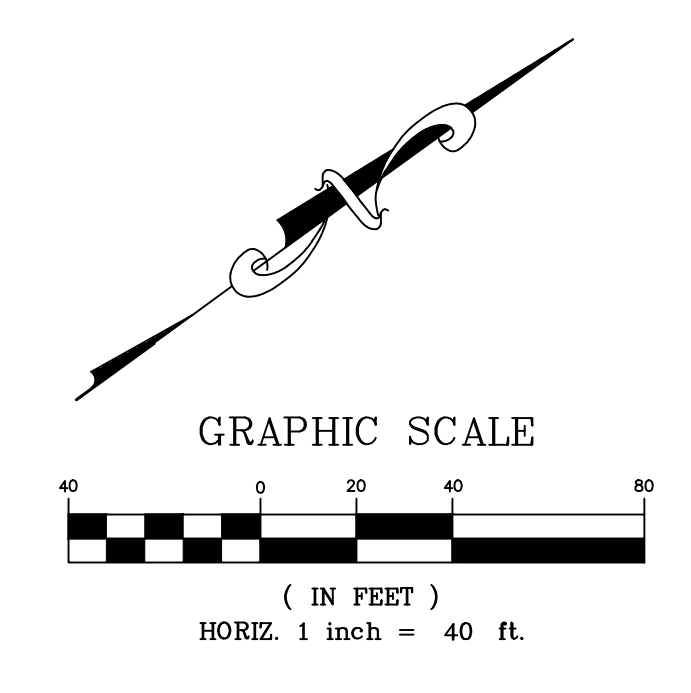
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SHEET
8 of 15

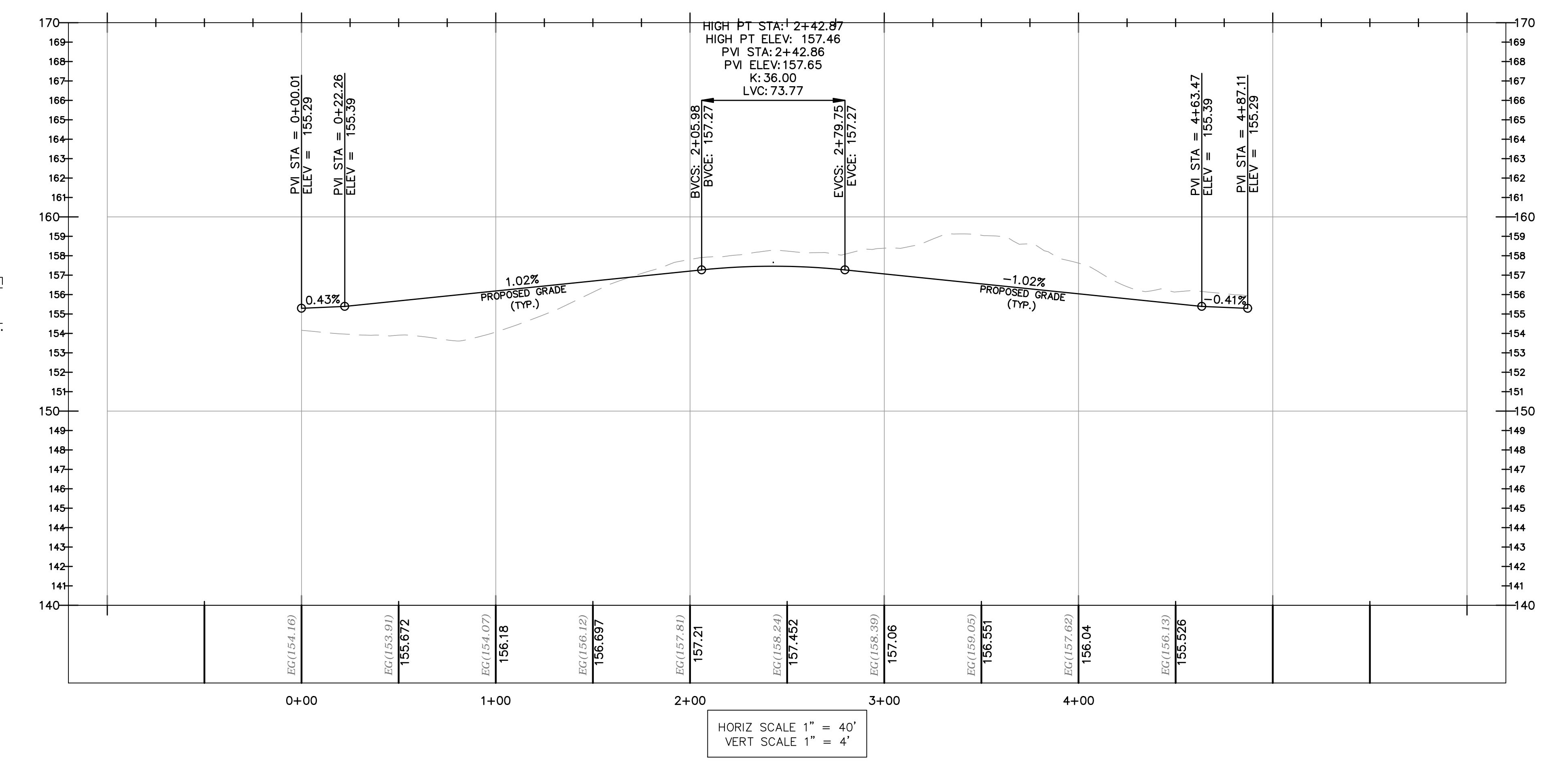
Page M-10
 Sheet C-9 (Road Plan & Profile)
 Road B
 - STA 10+00.00 to 15+00.00



VIEWPORT KEY MAP N.T.S.



ROADWAY PROFILE



CUL-DE-SAC PERIMETER PROFILE

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PROJECT NAME:
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 MAP OF FLOWERFIELD SUBDIVISION**

PROJECT FOR:
**1 FLOWERFIELD
 SAINT JAMES, NEW YORK 11780**

TITLE:
**ROAD PLAN & PROFILE ROAD B
 - STA 10+00.00 TO STA
 15+00.00**

DISCIPLINE:
CIVIL

PROJECT ENGINEER:
 JG

DESIGNED BY:
 WS

DRAWN BY:
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PROJECT NO.:
 CE338A-02

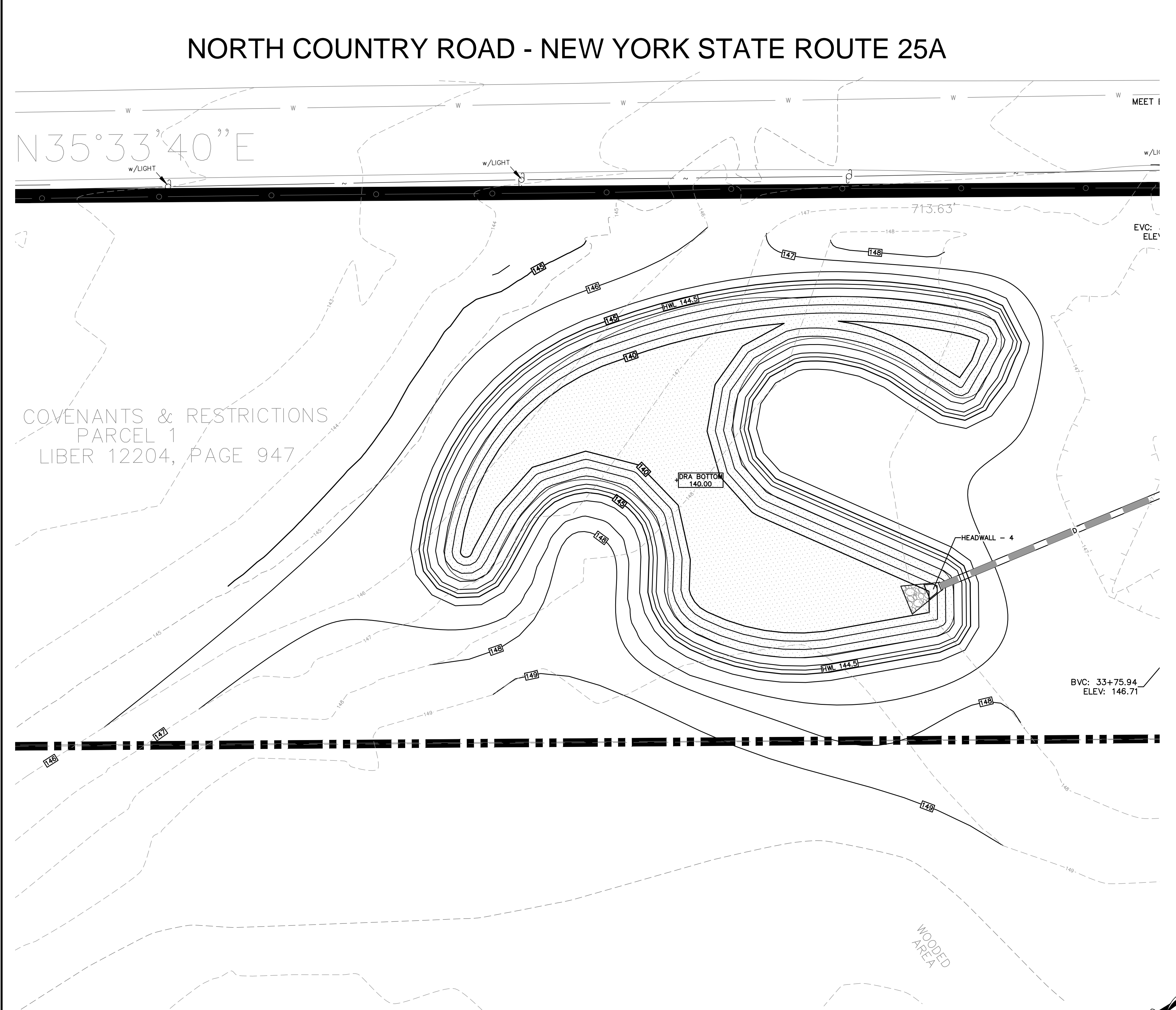
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DATE:
 AUGUST 2019

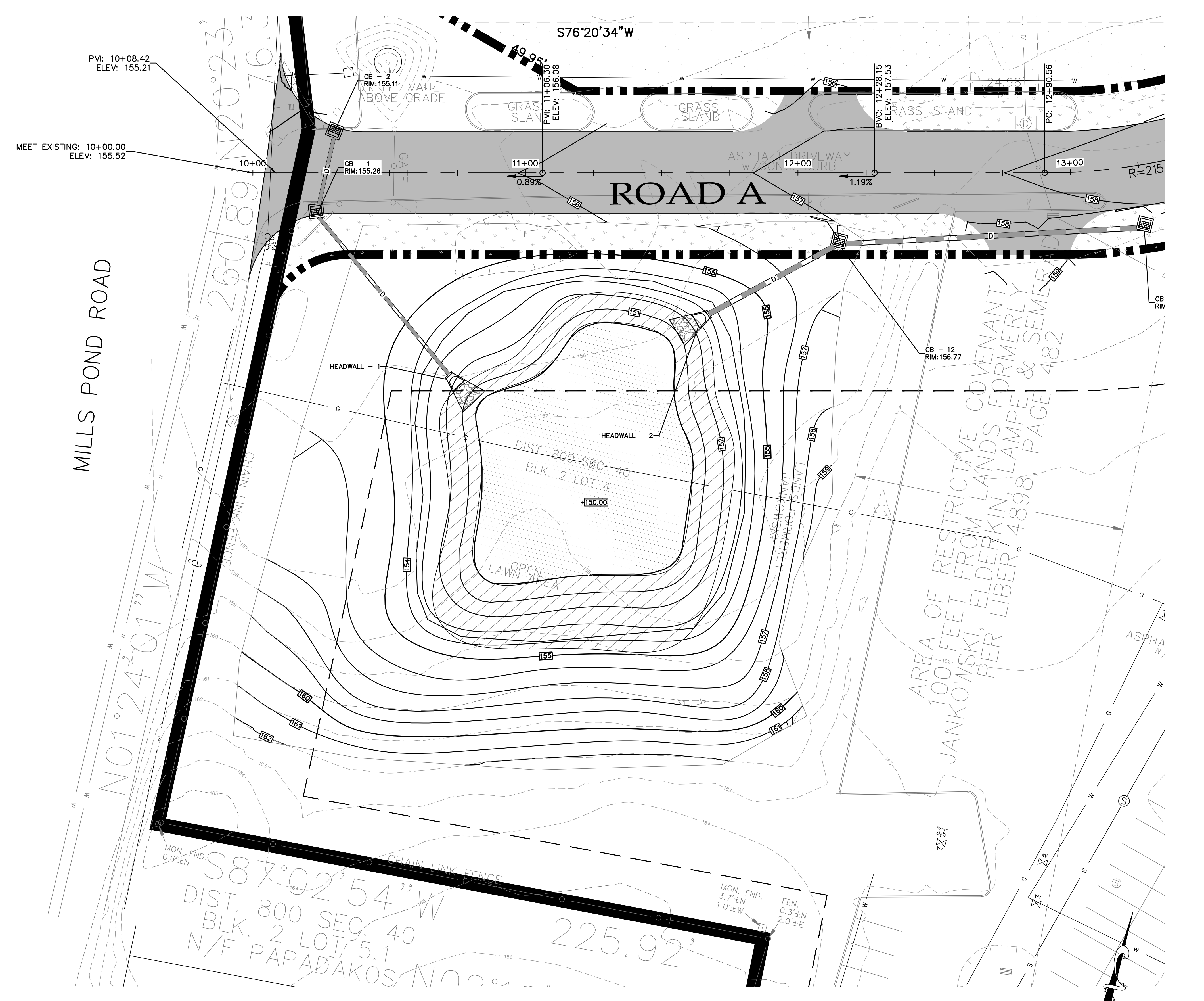
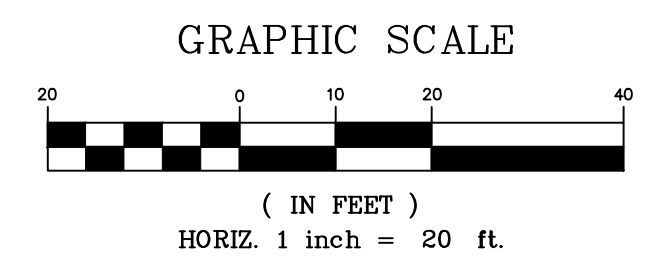
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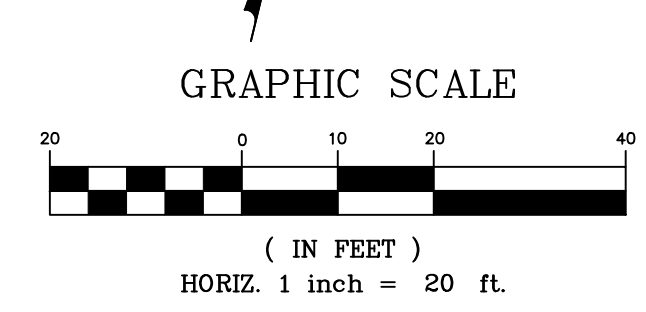
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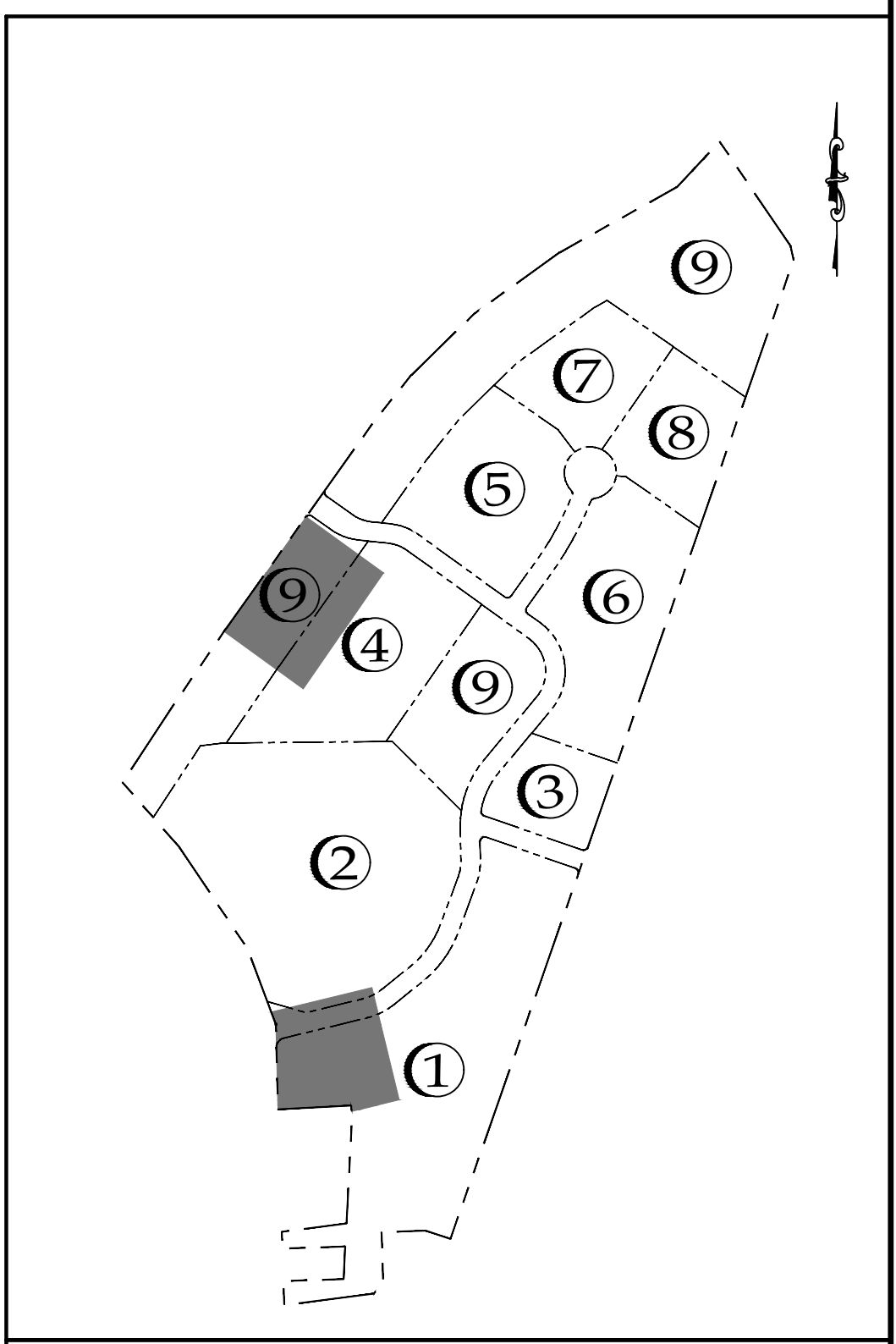
DRAINAGE RESERVE AREA (DRA1)



DRAINAGE RESERVE AREA (DRA3)



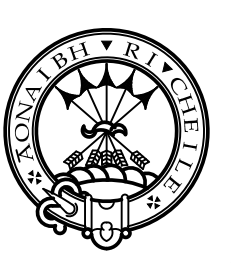
Page M-12
Sheet C-11 (DRA 1 & 3 Enlargement)



VIEWPORT KEY MAP N.T.S.

NO.	DATE	REVISION DESCRIPTION	BY

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PROJECT NAME:
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MAP OF FLOWERFIELD SUBDIVISION**
PROJECT FOR:
**1 FLOWERFIELD
SAINT JAMES, NEW YORK 11780**

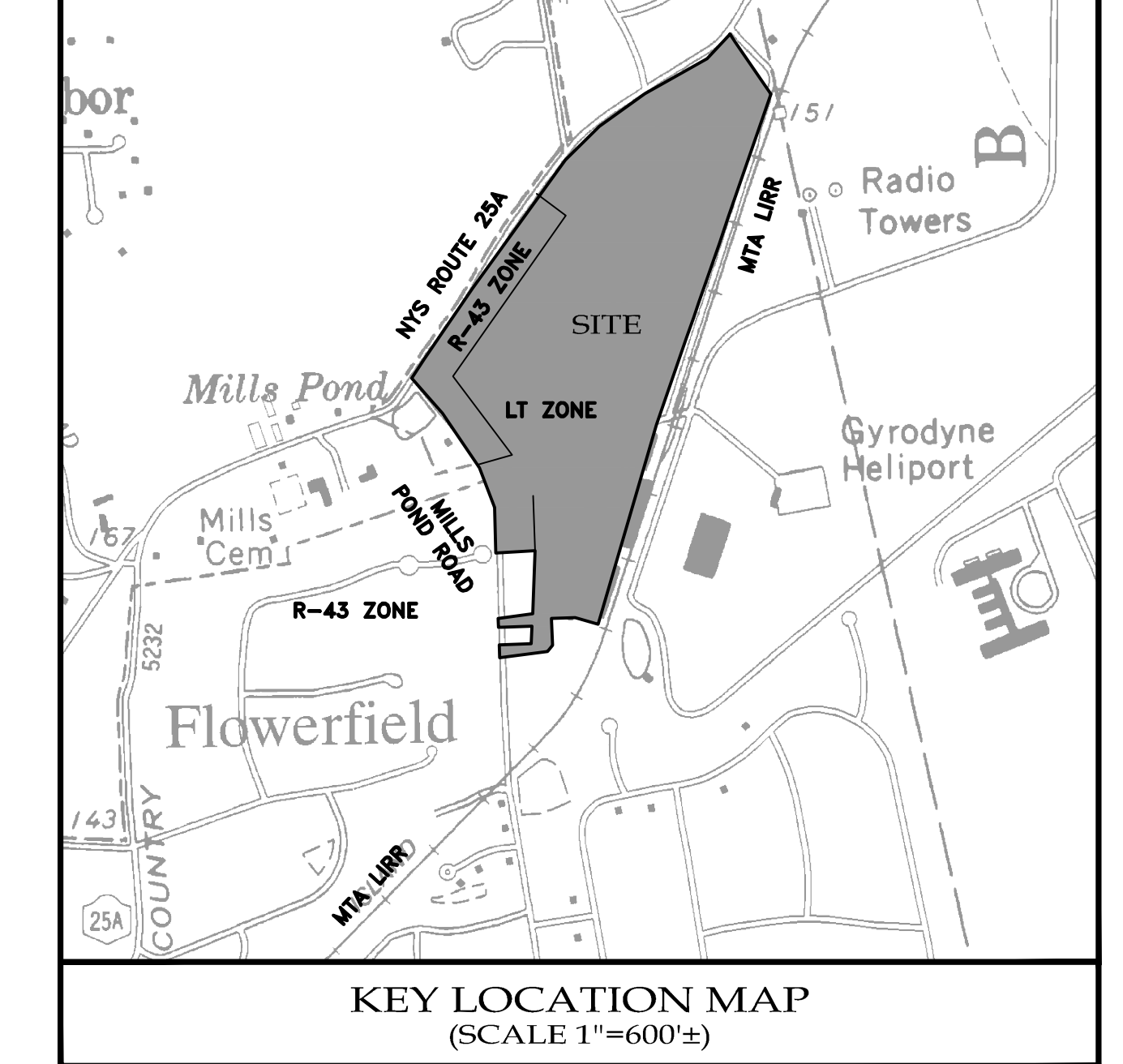
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DRA 1 & 3 ENLARGEMENT
DISCIPLINE:
CIVIL

PROJECT ENGINEER:
JVC
DESIGNED BY:
WS
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CHECKED BY:
KMM
PROJECT NO.:
CE338A-02
JOB NO.:
CE338A-02
DATE:
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DRAWING NO.:
C-11
SHEET
11 OF 15

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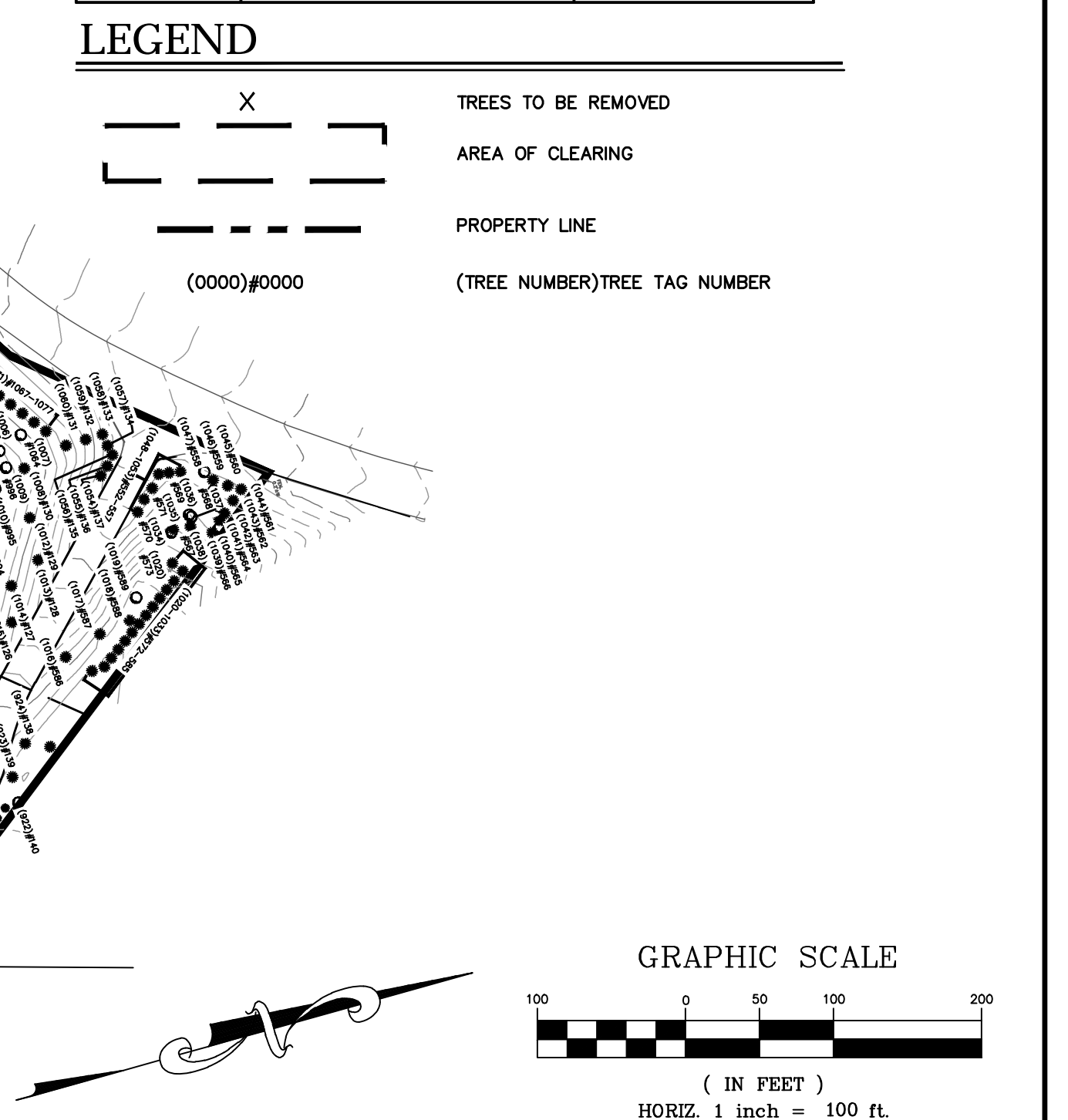
TREE PRESERVATION AND REMOVAL LIST (REFER TO BOTANICAL LIST OF EXISTING TREES FOR GENUS/SPECIES)

Main table listing tree preservation and removal details, including tree number, tag, type, size, and removal status. Includes a key location map and a detailed botanical list of existing trees.



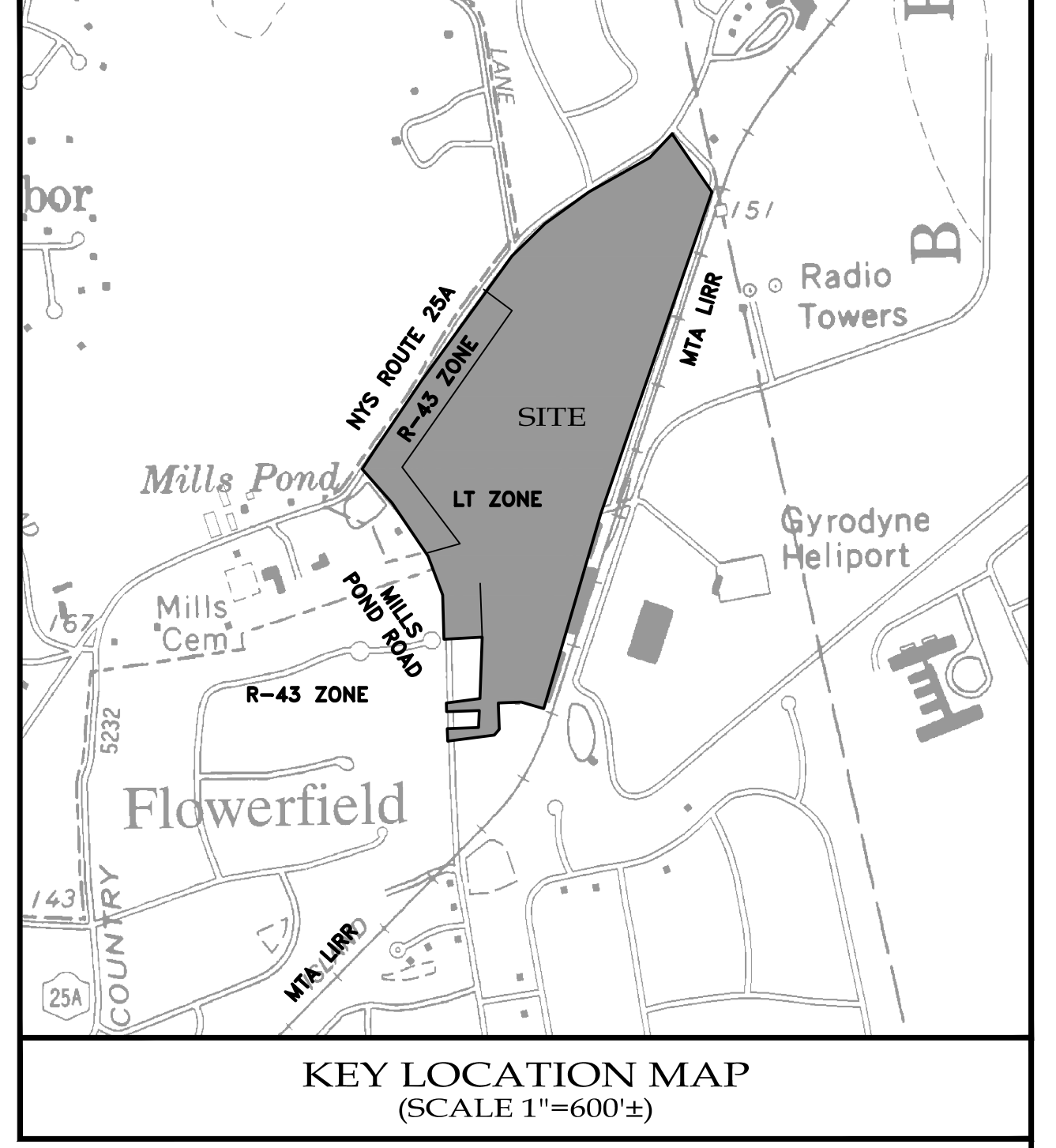
BOTANICAL LIST OF EXISTING TREES

Table with 3 columns: BOTANICAL NAME, COMMON NAME, and REMOVAL STATUS. Lists various tree species and their corresponding common names.



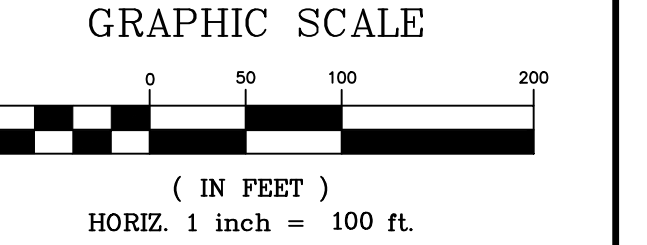
TREE PRESERVATION AND REMOVAL LIST (REFER TO BOTANICAL LIST OF EXISTING TREES FOR GENUS/SPECIES)

Table with columns for tree ID, date, revision description, and tree species. It lists numerous trees with their coordinates and species names, such as 1241 Cherry, 1242 Locust, 1243 Oak, etc.

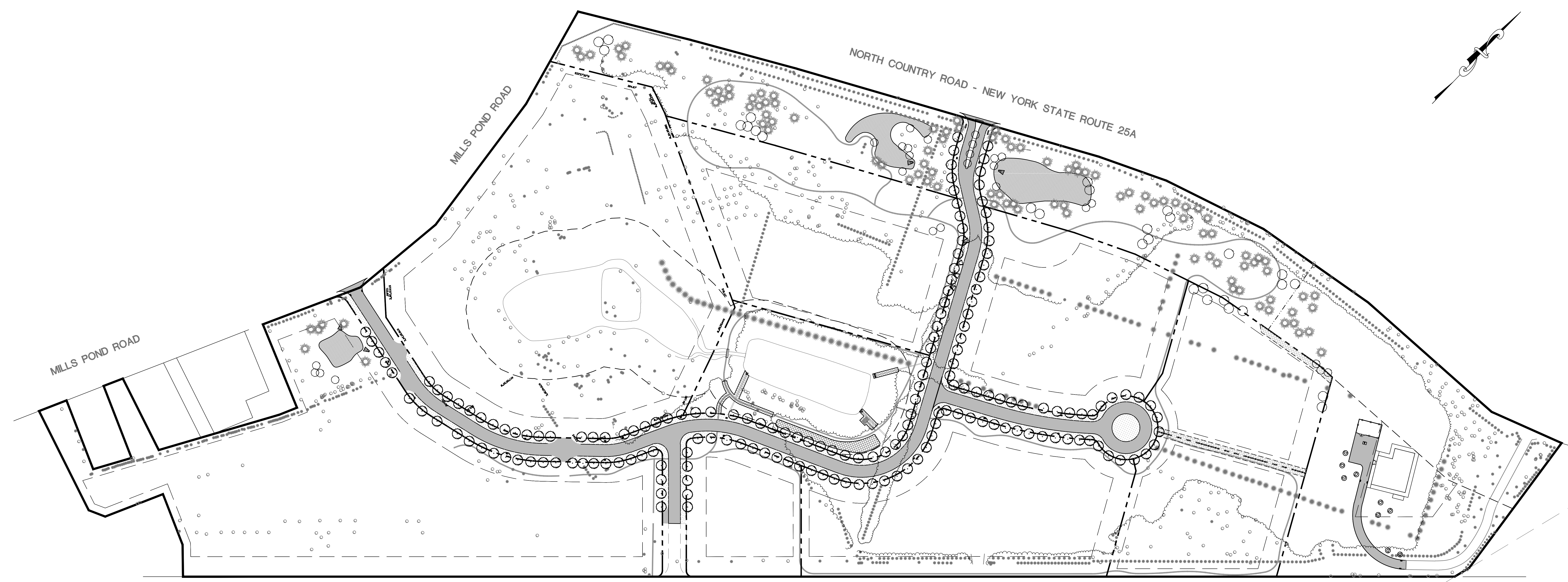


Page M-15 Sheet C-14 (Tree Preservation and Land Clearing Plan (2))

NOTE PLEASE SEE SHEET C-15 FOR TREE SPECIES INFORMATION.



Project information block containing: NO. DATE, REVISION DESCRIPTION, PROJECT NAME (GYRODYNE, LLC MAP OF FLOWERFIELD SUBDIVISION), PROJECT ENGINEER (JG), PROJECT NO. (CE338A-02), DRAWING NO. (C-14), and CAMERON ENGINEERING & ASSOCIATES, LLP logo and address.



EXISTING PLANTING

	EXISTING EVERGREEN TREES TO REMAIN
	EXISTING DECIDUOUS TREES TO REMAIN
	EXISTING PLANTING WITHIN NYS DEC FRESHWATER WETLAND JURISDICTION TO BE REMOVED FOR INSTALLATION OF STORMWATER PIPING AND NATURE TRAIL. (TO BE MITIGATED 1:1 WITH NATIVE DECIDUOUS PLANTING AS SHOWN IN PROPOSED PLANTING SCHEDULE)

REFER TO DRAWINGS C-13 AND C-14 (TREE PRESERVATION & LAND CLEARING PLAN) FOR DETAILS.

PROPOSED PLANTING SCHEDULE

STREET TREES

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
	176	<i>Acer rubrum</i>	Red Maple	2.5"-3" CAL.	AS SHOWN	B&B
		<i>Chaetula virginiana 'Skyline'</i>	Honeylocust	2.5"-3" CAL.	AS SHOWN	B&B
		<i>Pistacia x acerifolia</i>	London Plane	2.5"-3" CAL.	AS SHOWN	B&B
		<i>Quercus rubra</i>	Northern Red Oak	2.5"-3" CAL.	AS SHOWN	B&B
		<i>Quercus alba</i>	White Oak	2.5"-3" CAL.	AS SHOWN	B&B
		<i>Tilia cordata 'Greenspire'</i>	Littledot Linden	2.5"-3" CAL.	AS SHOWN	B&B

FLOWERING / CLUMP FORM TREES

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
	55	<i>Betula nigra</i>	Heritage Birch	2"-2.5" CAL.	AS SHOWN	B&B
		<i>Cercia canadensis</i>	Eastern Redbud	2"-2.5" CAL.	AS SHOWN	B&B
		<i>Cornus Florida</i>	Flowering Dogwood	2"-2.5" CAL.	AS SHOWN	B&B
		<i>Kousa Kousa</i>	Kousa Dogwood	2"-2.5" CAL.	AS SHOWN	B&B
		<i>Ligustrum lucidum</i>	Chinese Holly	2"-2.5" CAL.	AS SHOWN	B&B
		<i>Prunus 'Keenan'</i>	Keenan Cherry	2"-2.5" CAL.	AS SHOWN	B&B

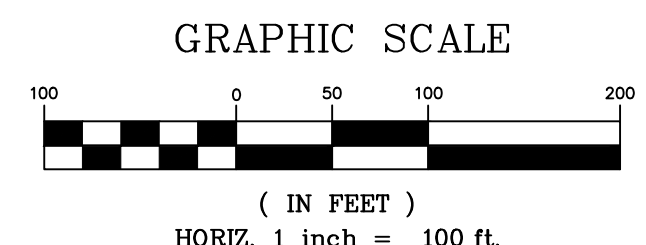
EVERGREEN TREES

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
	105	<i>Ilex opaca</i>	American Holly	7"-8" HEIGHT	AS SHOWN	B&B
		<i>Juniperus virginiana</i>	Eastern Red Cedar	7"-8" HEIGHT	AS SHOWN	B&B
		<i>Pinus rigida</i>	Pitch Pine	7"-8" HEIGHT	AS SHOWN	B&B
		<i>Pinus strobus</i>	White Pine	7"-8" HEIGHT	AS SHOWN	B&B
		<i>Picea abies</i>	Norway Spruce	7"-8" HEIGHT	AS SHOWN	B&B
		<i>Tsuga canadensis</i>	Canadian Hemlock	7"-8" HEIGHT	AS SHOWN	B&B

1:1 LANDSCAPE MITIGATION WITH NATIVE DECIDUOUS SHRUBS (WITHIN NYS DEC FRESHWATER WETLAND JURISDICTION)

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
	<i>Aronia arbutifolia</i>	Red Chokeberry	24"-36"	AS SHOWN	CONTAINER
	<i>Cornus sericea 'Kelsey'</i>	Red Twig Dogwood	24"-36"	AS SHOWN	CONTAINER
	<i>Hammamelis virginiana</i>	Common Witchhazel	24"-36"	AS SHOWN	CONTAINER
	<i>Hydrangea quercifolia</i>	Dakleaf Hydrangea	24"-36"	AS SHOWN	CONTAINER
	<i>Ilex verticillata 'Winter Red'</i>	Winterberry	24"-36"	AS SHOWN	CONTAINER
	<i>Vaccinium corymbosum</i>	Highbush Blueberry	24"-36"	AS SHOWN	CONTAINER
	<i>Viburnum carlesii</i>	Koreanspice Viburnum	24"-36"	AS SHOWN	CONTAINER

Seeding at Right of way (ROW)



NO.	DATE	REVISION DESCRIPTION	INT.

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PROJECT NAME:
**GYRODYNE, LLC
MAP OF FLOWERFIELD SUBDIVISION**

PROJECT FOR:
**1 FLOWERFIELD
SAINT JAMES, NEW YORK 11780**

TITLE:
LANDSCAPE PLAN

DISCIPLINE:
CIVIL

PROJECT ENGINEER:
JG

DESIGNED BY:
WS

DRAWN BY:
WS

CHECKED BY:
KMM

PROJECT NO.:
CE338A-02

JOB NO.:
CE338A-02

DATE:
AUGUST 2019

SCALE:
AS SHOWN

DRAWING NO.:
C-15

SHEET
15 of 15