

# Advanced Cleanup Technologies, Inc.

ENVIRONMENTAL CONSULTANTS

November 1, 2023

Joseph Jones  
NYSDEC Division of Environmental Remediation  
625 Broadway  
Albany, NY, 12233-5060

Re: Supplemental Remedial Investigation Workplan for  
Busy Bee Cleaners 1818 Merrick Road, Merrick, NY  
11566 (C130094)

Dear Mr. Jones,

Please accept the below as a Supplemental Remedial Investigation Work Plan for 1818 Merrick Road, Merrick, NY 11566 (BCP Site No. C130094). All sampling, analytical and reporting protocols will follow the Quality Assurance Project Plan contained in Appendix C. An indoor air sample and sub-slab soil vapor sample will be installed in each of the four adjacent residential properties located to the south of the subject property. A total of two outdoor air samples will also be installed off-site to evaluate the potential exposure pathway through soil gas to offsite receptors. A total of three permanent groundwater monitoring wells will be installed in the southwestern portion of the Site and on the eastern and western sides of monitoring wells MW-2S and MW-2D to further delineate groundwater quality in the vicinity of the Site. The locations of the samples are specified in Figure 1.

The Community Air Monitor Plan (CAMP) is contained in Appendix B and will be followed with the following additions:

- a. When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.



- b. If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Depending upon the nature of contamination, chemical-specific colorimetric tubes of sufficient sensitivity may be necessary for comparing the exposure point concentrations with appropriate pre-determined response levels (response actions should also be pre-determined). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.
- c. If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m<sup>3</sup>, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m<sup>3</sup> or less at the monitoring point.

CAMP reports will be submitted to NYSDEC and NYSDOH for review on a weekly basis. Data will be provided to NYSDEC and NYSDOH via email as soon as possible the same day if an exceedance occurs including a description of the exceedance, the cause of the exceedance, and corrective actions taken, if any. If the exceedance occurs after regular business hours, the Agencies will be notified as soon as possible the next business day. All data from the CAMP will be included in the resultant sampling report.

## **1. Preconstruction**

Sampling events conducted at the Site have identified chlorinated volatile organic compound (CVOC) contamination in groundwater and soil gas beneath the Site.

## **2. Groundwater Sampling**

Groundwater monitoring well installation and sampling will follow the procedures outlined in the approved RIWP. A total of three permanent groundwater monitoring wells will be installed and sampled at the approximate locations indicated in the proposed sampling diagram (Figure 1). Monitoring wells MW-8D and MW-9D will be installed in the eastern and western vicinities of MW-2S/D, which are located along Alice Street to the south of the Site. Monitoring well MW-10D will be installed on the southwestern portion of the Site.

The groundwater monitoring wells will be installed to the top of the first-encountered clay confining unit and consist of 2-inch diameter PVC well screen, riser pipe, and end cap. A filter pack consisting of No. 2 well gravel will be placed in the annulus of the well screen to 1 to 5-feet above the top of the screened interval. A hydrated bentonite seal will be placed above the top of the filter pack. Gravel or native soil will be placed from the top of the bentonite seal to the bottom of the concrete or asphalt pavement. The wells will be completed with flush-mounted well covers.



Groundwater samples from the newly installed wells will be collected no sooner than two weeks following well installation. The depth to water elevation will be measured at each screened interval with an electronic conductivity meter. Groundwater samples will be collected utilizing low-flow techniques in accordance with EPA Region I Low-Stress (Low-Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells (EPASOP-GW 001 Rev. 3, July 30, 1996, Revised January 19, 2010).

Groundwater samples will be placed into laboratory supplied sampling containers. Nitric acid will be utilized as a preservative for total Metals. The samples will be placed in a chilled cooler pending refrigeration. A courier will be utilized to transport the samples to the designated analytical laboratory. Proper chain of custody documentation will accompany the samples.

Groundwater samples will be containerized and transported to Phoenix Laboratories for certified laboratory analysis.

All Samples will be analyzed for:

- Volatile Organic Compounds by EPA Method 8260;

### **3. Sub-Slab Soil Vapor Sampling**

Soil vapor samples will be collected in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006). Sub-slab soil vapor will be sampled at the approximate locations indicated in the proposed sampling diagram (Figure 1). A total of four sub-slab soil vapor samples (SS-1 through SS-4) will be collected from the basement or first-floor grade of 1807, 26, 22, and 1825 Alice Street, located at the adjacent property to the south of the Site. In the event a crawl space with a dirt floor is encountered, a crawlspace air sample will be collected instead of a sub-slab soil vapor sample.

The sub-slab vapor implants will be installed utilizing a power drill, a 1-foot-long drill bit, dedicated Teflon tubing and volatile organic compound (VOC) free putty for sealant. The sub-slab soil vapor probe(s) will be installed to a depth of 2 inches beneath the existing building slab. Flow rate for both purging and sampling will not exceed 0.2 L/min. Following soil vapor probe installation, one to three implant volumes shall be purged prior to the collection of any soil-gas samples.

A 6-Liter stainless steel Summa canister that has been batch certified clean by the laboratory with a flow regulator set to a flow rate of approximately 0.004 liters per minute will be connected to the Teflon tubing exiting each soil vapor probe. Once the canisters are in place, the flow regulators will be opened, and sampling will continue for approximately 24 hours until the canisters are full.

As part of the vapor intrusion evaluation, a tracer gas will be used in accordance with NYSDOH protocols to serve as a quality assurance/quality control (QA/QC) device to verify the integrity of the soil vapor probe seal. A container (box, plastic pail, etc.) will serve to keep the



tracer gas in contact with the probe during testing. A portable monitoring device will be used to analyze a sample of soil vapor for the tracer gas prior to sampling. If the tracer sample results show a significant presence of the tracer, the probe seals will be adjusted to prevent infiltration.

#### **4. Indoor Air Sampling**

Indoor and outdoor air will be sampled concurrently with the sub-slab soil vapor samples at the approximate locations indicated in the proposed sampling diagram (Figure 1) during the upcoming heating season. A total of four indoor air samples (IA-1 through IA-4) will be collected from the basement or first-floor grade of 1807, 26, 22, and 1825 Alice Street, located at the adjacent property to the south of the Site. Two outdoor air samples OA-1 and OA-2 will be collected upwind of the area to be sampled.

Indoor air samples will be collected by placing an individually cleaned and laboratory certified 6-Liter stainless steel Summa canisters on surfaces approximately 3 feet above the floor. Each Summa canister will be equipped with a flow regulator. Samples IA-1 through IA-4 are in residential building. The canisters for these samples will be set to a flow rate of approximately 0.004 liters per minute, which will fill in approximately 24 hours. The canisters will be opened to initiate sampling, which will continue for the approximate durations until the canisters are almost full, and the regulators are closed.

Letters will be transmitted to the owners of off-site properties to request access. A template for the transmittal letters is attached.

#### **5. Quality Assurance/Quality Control**

##### **5.1 Quality Assurance/Quality Control Procedures**

QA/QC procedures will be used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analysis for this investigation. Field QA/QC procedures will be used (1) to document that samples are representative of actual conditions at the Site and (2) identify possible cross-contamination from field activities or sample transit. Laboratory QA/QC procedures and analyses will be used to demonstrate whether analytical results have been biased either by interfering compounds in the sample matrix, or by laboratory techniques that may have introduced systematic or random errors to the analytical process. A summary of the field and laboratory QA/QC procedures is provided below.

##### **5.2 Field QA/QC**

Field QA/QC will include the following procedures:

- Calibration of field equipment, including PID, on a daily basis;
- Analysis of trip blank (VOCs only) and duplicate samples;
- Use of dedicated and/or disposable field sampling equipment;



- Proper sample handling and preservation;
- Proper sample chain of custody documentation; and
- Completion of report logs.

The above procedures will be executed as follows:

- Two duplicate samples (one soil and one groundwater sample) will be collected to evaluate field sampling precision or reproducibility of measurements of the same parameter under the given set of conditions;
- Disposable sampling equipment, including acetate sleeves, latex gloves, and disposable bailers (or sample tubing), will be used to minimize cross-contamination between samples;
- For each of the parameters analyzed, a sufficient sample volume will be collected to adhere to the specific analytical protocol, and provide sufficient sample for reanalysis if necessary;
- Because plasticizers and other organic compounds inherent in plastic containers may contaminate samples requiring organic analysis, samples will be collected in glass containers, with the exception of the nitrate-preserved groundwater sample for metals analysis;
- Appropriate sample preservation techniques, including cold temperature storage at 4° C, will be utilized to ensure that the analytical parameters concentrations do not change between the time of sample collection and analysis; and
- Samples will be analyzed prior to the expiration of the respective holding time for each analytical parameter to ensure the integrity of the analytical results.

### **5.3 Sample Custody**

Sample handling in the field will conform to appropriate sample custody procedures. Field custody procedures include proper sample identification, chain-of-custody forms, and packaging and shipping procedures. Sample labels will be attached to all sampling bottles before field activities begin to ensure proper sample identification. Each label will identify the site and sample location. Styrofoam or bubble wrap will be used to absorb shock and prevent breakage of sample containers. Ice or ice packs will be placed in between the plastic bags for sample preservation purposes.

After each sample is collected and appropriately identified, the following information will be entered into the chain-of-custody form:

- Site name;
- Sampler(s)' name(s) and signature(s);
- Names and signatures of persons involved in the chain of possession of samples;
- Sample number;
- Number of containers;
- Sample location;
- Date and time of collection;
- Type of sample, sample matrix and analyses requested;
- Preservation used (if any); and
- Any pertinent field data collected (pH, temperature, conductivity, DO).



The sampler will sign and date the “Relinquished” blank space prior to removing one copy of the custody form and sealing the remaining copies of the form in a Ziploc plastic bag taped to the underside of the sample cooler lid. The sample cooler will be sealed with tape prior to delivery or shipment to the laboratory.

#### **5.4 Report Logs**

Field logs and borings logs will be completed during the course of this investigation. A field log will be completed on a daily basis which will describe all field activities including:

- Project number, name, manager, and address;
- The date and time;
- The weather conditions;
- On-site personnel and associated affiliations;
- Description of field activities; and
- Pertinent sample collection information including sample identification numbers, description of samples, location of sampling points, number of samples taken, method of sample collection and any factors that may affect its quality, time of sample collection, name of collector, and field screening results.

A boring log will be completed for each boring and will include the following information:

- Project number, name, manager, and location;
- The date and time;
- Drilling company and method used;
- Boring number;
- Total boring depth and water table depths; and
- Pertinent soil sample information including sample number, interval, depth, amount recovered, color, composition, percent moisture, visual and olfactory observations of contamination, and PID readings.

#### **5.5 Laboratory QA/QC**

An ELAP-certified laboratory will be used for all sample analyses. The laboratory will follow the following QA/QC protocols. All samples will be delivered to the laboratory within 24 hours of sample collection. Samples will be received by laboratory personnel, who will inspect the sample cooler(s) to check the integrity of the custody seals. The cooler(s) will then be opened, the samples unpackaged, and the information on the chain-of-custody form examined. If the shipped samples match those described on the chain-of-custody form, the laboratory sample custodian will sign and date the form on the next “Received” blank and assume responsibility for the samples. If problems are noted with the sample shipment, the laboratory custodian will sign the form and record problems in the “Remarks” box. The custodian will then immediately notify the Project Manager so appropriate follow-up steps can be implemented on a timely basis.

A record of the information detailing the handling of a particular sample through each stage of analysis will be maintained by the laboratory. The record will include:




- Job reference, sample matrix, sample number, and date sampled;
- Date and time received by laboratory, holding conditions, and analytical parameters;
- Extraction date, time and extractor's initials (if applicable), analysis date, time, and analyst's initials; and
- QA batch number, date reviewed, and reviewer's initials.

NYSDEC ASP Category B Data Deliverables will be submitted for all of the samples representing the final delineation of the nature and extent of contamination for a remedial investigation. Data validation packages and Data Usability Summary Reports (DUSRs) will be provided in the RIR to support the remedial investigation. The DUSRs for this project will be prepared by Renee G. Cohen, Premier Environmental Services, Inc., Merrick, NY. Ms. Cohen's resume and qualifications for preparing the DUSR report is provided.

I, Paul Stewart certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Off-Site Soil Vapor Intrusion Investigation Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Feel free to contact me if you have any questions or comments concerning the above.

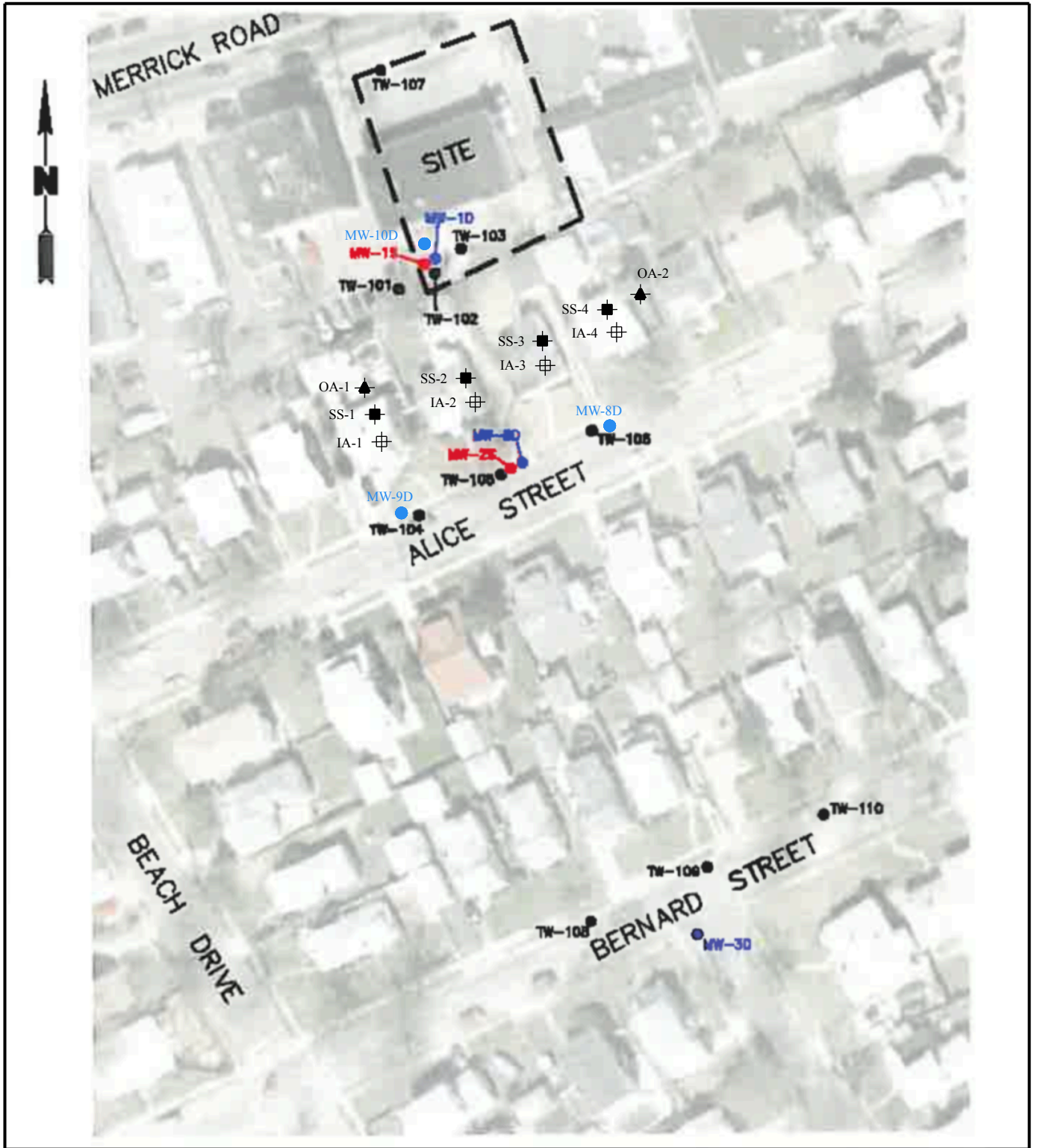
Very truly yours,

Signature:   
Paul P. Stewart, MS, QEP

Date: November 1, 2023

## **DIAGRAMS**





**Legend**

- MW-1S ● Shallow Monitoring Well
- MW-1D ● Deep Monitoring Well
- TW-105 ● Temporary Groundwater Sampling Locations
- IA-1 ⊕ Indoor Air Sample
- SS-1 ⊕ Sub-Slab Soil Vapor Sample
- OA-1 ▲ Outdoor Air Sample

**Proposed Sampling Diagram**

Advanced Cleanup Technologies, Inc.  
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 Tel: 516-441-5800 Fax: 516-441-5511

Project No.: 7538-MRNY

Figure No.: 1

Date: 10/23/2023

Scale: Not To Scale

## **TABLES**











**Table 1**  
 Volatile Organic Compounds in Groundwater (ug/L)  
 EPA Method 8260  
 1818 Merrick Road, Merrick, NY 11566  
 BCP Site No. C130094

Sample ID York ID Sampling Date Client Matrix	Compound	CAS Number	NYSDECTOGS Standards and Guidance Values - GA	MW-15 19G0148-05 6/28/19 Water		MW-1D 19G0148-04 6/28/19 Water		MW-2S 19G0148-03 6/28/19 Water		MW-2D 19G0148-02 6/28/19 Water		MW-3D 19G0148-01 6/28/19 Water		MW-2D 19G0148-02 6/28/19 Water	
				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
				ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
<b>Volatile Organics, 8260 List - Low Level</b>															
<b>Dilution Factor</b>				5		100		1		5		1		5	
	1,1,1,2-Tetrachloroethane	630-20-6	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,1,1-Trichloroethane	71-55-6	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,1,2,2-Tetrachloroethane	79-34-5	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,1,2-Trichloroethane	79-00-5	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,1-Dichloroethane	75-34-3	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,1-Dichloroethylene	75-35-4	5	0.2	U	9.4		0.2	U	0.6		0.2	U	0.6	
	1,1-Dichloropropylene	563-58-6	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,2,3-Trichlorobenzene	87-61-6	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,2,3-Trichloropropane	96-18-4	0.04	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,2,4,5-Tetramethylbenzene	95-93-2	~	0.2	U	0.63		0.2	U	0.2	U	0.2	U	0.2	U
	1,2,4-Trichlorobenzene	120-82-1	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,2,4-Trimethylbenzene	95-63-6	5	0.67		1.3		0.2	U	0.2	U	0.2	U	0.2	U
	1,2-Dibromo-3-chloropropane	96-12-8	0.04	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,2-Dibromoethane	106-93-4	0.0006	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,2-Dichlorobenzene	95-50-1	3	0.2	U	2.6		0.2	U	0.2	U	0.2	U	0.2	U
	1,2-Dichloroethane	107-06-2	0.6	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,2-Dichloropropane	78-87-5	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,3,5-Trimethylbenzene	108-67-8	5	0.95		0.49	J	0.2	U	0.2	U	0.2	U	0.2	U
	1,3-Dichlorobenzene	541-73-1	3	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,3-Dichloropropane	142-28-9	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	1,4-Dichlorobenzene	106-46-7	3	0.38	J	0.61		0.2	U	0.2	U	0.2	U	0.2	U
	2,2-Dichloropropane	594-20-7	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Butanone	78-93-3	50	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Chlorotoluene	95-49-8	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	2-Hexanone	591-78-6	50	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	4-Chlorotoluene	106-43-4	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	4-Methyl-2-pentanone	108-10-1	~	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Acetone	67-64-1	50	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
	Benzene	71-43-2	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Bromobenzene	108-86-1	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Bromochloromethane	74-97-5	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Bromodichloromethane	75-27-4	50	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Bromoform	75-25-2	50	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Bromomethane	74-83-9	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Carbon disulfide	75-15-0	~	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Carbon tetrachloride	56-23-5	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Chlorobenzene	108-90-7	5	0.2	U	0.92		0.2	U	0.2	U	0.2	U	0.2	U
	Chloroethane	75-00-3	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Chloroform	67-66-3	7	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Chloromethane	74-87-3	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	cis-1,2-Dichloroethylene	156-59-2	5	3.00	D	2,100	D	0.2	U	230	D	0.48	J	230	D
	cis-1,3-Dichloropropylene	10061-01-5	0.4	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Dibromochloromethane	124-48-1	50	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Dibromomethane	74-95-3	~	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Dichlorodifluoromethane	75-71-8	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Ethyl Benzene	100-41-4	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Hexachlorobutadiene	87-68-3	0.5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Isopropylbenzene	98-82-8	5	0.53		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Methyl tert-butyl ether (MTBE)	1634-04-4	10	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Methylene chloride	75-09-2	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
	Naphthalene	91-20-3	10	1.5	JB	1.4	JB	1.3	JB	1.4	JB	1.6	JB	1.4	JB
	n-Butylbenzene	104-51-8	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	n-Propylbenzene	103-65-1	5	0.34	J	0.2	J	0.2	U	0.2	U	0.2	U	0.2	U
	o-Xylene	95-47-6	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	p- & m- Xylenes	179601-23-1	~	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	p-Diethylbenzene	105-05-5	~	0.2	U	0.3	J	0.2	U	0.2	U	0.2	U	0.2	U
	p-Ethyltoluene	622-96-8	~	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	p-Isopropyltoluene	99-87-6	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	sec-Butylbenzene	135-98-8	5	0.28	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Styrene	100-42-5	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	tert-Butylbenzene	98-06-6	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Tetrachloroethylene	127-18-4	5	3,200	D	4,100	D	0.2	U	0.2	U	0.2	U	0.2	U
	Toluene	108-88-3	5	0.2	U	0.77		0.2	U	0.2	U	0.2	U	0.2	U
	trans-1,2-Dichloroethylene	156-60-5	5	2.1		150		0.2	U	24		0.2	U	24	
	trans-1,3-Dichloropropylene	10061-02-6	0.4	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Trichloroethylene	79-01-6	5	320	D	7,500	D	0.2	U	2.2		0.2	U	2.2	
	Trichlorofluoromethane	75-69-4	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Vinyl Chloride	75-01-4	2	0.2	U	1.6		0.2	U	0.2	U	0.2	U	0.2	U
	Xylenes, Total	1330-20-7	5	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U

**NOTES:**  
 Any Regulatory Exceedances are color coded by Regulation  
**Q is the Qualifier Column with definitions as follows:**  
 D=result is from an analysis that required a dilution  
 J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated  
 U=analyte not detected at or above the level indicated  
 B=analyte found in the analysis batch blank  
 E=result is estimated and cannot be accurately reported due to levels encountered or interferences  
 P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis  
 NT=this indicates the analyte was not a target for this sample  
 ~this indicates that no regulatory limit has been established for this analyte

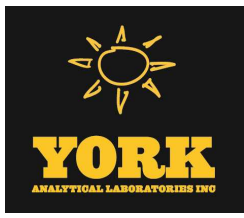


**Table 1**  
**Volatile Organic Compounds in Groundwater (ug/L)**  
 EPA Method 8260  
 1818 Merrick Road, Merrick, NY 11566  
 BCP Site No. C130094

Sample ID Phoenix Lab ID Sampling Date Client Matrix	Compound	CAS Number	NYSDEC TOGS Standards and Guidance Values - GA	CM87257 11/15/22 MW-1S Ground Water		CM87258 11/15/22 MW-1D Ground Water		CM87256 11/15/22 MW-2S Ground Water		CM87255 11/15/22 MW-2D Ground Water		CM87254 11/15/22 MW-3D Ground Water	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
<b>Volatiles By SW8260C</b>													
	1,1,1,2-Tetrachloroethane	630-20-6	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,1,1-Trichloroethane	71-55-6	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,1,2,2-Tetrachloroethane	79-34-5	5	< 5.0	5.0	< 5.0	5.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
	1,1,2-Trichloroethane	79-00-5	1	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,1-Dichloroethane	75-34-3	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,1-Dichloroethene	75-35-4	5	< 5.0	5.0	<b>14</b>	5.0	< 1.0	1.0	<b>1.3</b>	1.0	< 1.0	1.0
	1,1-Dichloropropene	563-58-6	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,2,3-Trichlorobenzene	87-61-6	~	< 20	20	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,2,3-Trichloropropane	96-18-4	0.04	< 5.0	5.0	< 5.0	5.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
	1,2,4-Trichlorobenzene	120-82-1	~	< 20	20	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,2,4-Trimethylbenzene	95-63-6	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 10	10	< 10	10	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
	1,2-Dibromoethane	106-93-4	0.0006	< 5.0	5.0	< 5.0	5.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
	1,2-Dichlorobenzene	95-50-1	~	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,2-Dichloroethane	107-06-2	0.6	< 5.0	5.0	< 5.0	5.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60
	1,2-Dichloropropane	78-87-5	1	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,3,5-Trimethylbenzene	108-67-8	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,3-Dichlorobenzene	541-73-1	3	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,3-Dichloropropane	142-28-9	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	1,4-Dichlorobenzene	106-46-7	~	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	2,2-Dichloropropane	594-20-7	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	2-Chlorotoluene	95-49-8	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	2-Hexanone	591-78-6	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
	2-Isopropyltoluene	527-84-4	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	4-Chlorotoluene	106-43-4	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	4-Methyl-2-pentanone	108-10-1	~	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
	Acetone	67-64-1	50	< 5.0	5.0	< 5.0	5.0	< 25	25	< 25	25	< 25	25
	Acrylonitrile	107-13-1	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Benzene	71-43-2	1	< 5.0	5.0	< 5.0	5.0	< 0.70	0.70	< 0.70	0.70	< 0.70	0.70
	Bromobenzene	108-86-1	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Bromochloromethane	74-97-5	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Bromodichloromethane	75-27-4	50	< 10	10	< 10	10	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
	Bromoform	75-25-2	50	< 20	20	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Bromomethane	74-83-9	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Carbon Disulfide	75-15-0	~	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
	Carbon tetrachloride	56-23-5	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Chlorobenzene	108-90-7	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Chloroethane	75-00-3	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Chloroform	67-66-3	7	< 7.0	7.0	< 7.0	7.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Chloromethane	74-87-3	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	cis-1,2-Dichloroethene	156-59-2	5	<b>1,700</b>	200	<b>3,700</b>	500	< 1.0	1.0	<b>480</b>	20	<b>4</b>	1.0
	cis-1,3-Dichloropropene	10061-01-5	0.4	< 5.0	5.0	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
	Dibromochloromethane	124-48-1	50	< 10	10	< 10	10	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
	Dibromomethane	74-95-3	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Dichlorodifluoromethane	75-71-8	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Ethylbenzene	100-41-4	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Hexachlorobutadiene	87-68-3	0.5	< 5.0	5.0	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
	Isopropylbenzene	98-82-8	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	m&p-Xylene	179601-23-1	~	< 20	20	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Methyl ethyl ketone	78-93-3	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
	Methyl t-butyl ether (MTBE)	1634-04-4	~	< 20	20	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Methylene chloride	75-09-2	5	< 10	10	< 10	10	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Naphthalene	91-20-3	10	< 10	10	< 10	10	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	n-Butylbenzene	104-51-8	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	n-Propylbenzene	103-65-1	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	o-Xylene	95-47-6	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	p-Isopropyltoluene	99-87-6	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	sec-Butylbenzene	135-98-8	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Styrene	100-42-5	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	tert-Butylbenzene	98-06-6	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Tetrachloroethene	127-18-4	5	<b>850</b>	200	<b>6,000</b>	500	<b>2.3</b>	1.0	<b>9.8</b>	1.0	< 1.0	1.0
	Tetrahydrofuran (THF)	109-99-9	50	< 5.0	5.0	< 5.0	5.0	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
	Toluene	108-88-3	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Total Xylenes	1330-20-7	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	trans-1,2-Dichloroethene	156-60-5	5	<b>19</b>	5.0	<b>160</b>	20	< 1.0	1.0	<b>24</b>	1.0	< 1.0	1.0
	trans-1,3-Dichloropropene	10061-02-6	0.4	< 5.0	5.0	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
	trans-1,4-dichloro-2-butene	110-57-6	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
	Trichloroethene	79-01-6	5	<b>1,300</b>	200	<b>8,700</b>	500	< 1.0	1.0	<b>36</b>	20	< 1.0	1.0
	Trichlorofluoromethane	75-69-4	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Trichlorotrifluoroethane	76-13-1	5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
	Vinyl chloride	75-01-4	2	<b>83</b>	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0

**NOTES:**  
 Any Regulatory Exceedences are color coded by Regulation  
 Yellow Highlight = Exceedance of TOGS  
 Bold Value = Laboratory Detection  
 RL is the Laboratory Reporting Limit  
 ~this indicates that no regulatory limit has been established for this analyte

**APPENDIX A**  
**LABORATORY REPORTS**



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Theresa Burkard**

Report Date: 06/26/2014  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 14F0847

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 06/26/2014  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 14F0847

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Theresa Burkard

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 19, 2014 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
14F0847-01	MW-1S	Water	06/17/2014	06/19/2014
14F0847-02	MW-1D	Water	06/17/2014	06/19/2014
14F0847-03	MW-2S	Water	06/17/2014	06/19/2014
14F0847-04	MW-2D	Water	06/17/2014	06/19/2014
14F0847-05	MW-3D	Water	06/17/2014	06/19/2014

## **General Notes for York Project (SDG) No.: 14F0847**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 06/26/2014





## Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 14F0847-01

York Project (SDG) No.  
14F0847

Client Project ID  
7538-MRNY

Matrix  
Water

Collection Date/Time  
June 17, 2014 3:30 pm

Date Received  
06/19/2014

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
527-53-7	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
78-93-3	2-Butanone	ND		ug/L	0.50	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
67-64-1	<b>Acetone</b>	<b>1.8</b>	J, B	ug/L	1.0	2.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 14F0847-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14F0847

7538-MRNY

Water

June 17, 2014 3:30 pm

06/19/2014

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>41</b>		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 19:42	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>66</b>		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 19:42	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>0.31</b>	J	ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
79-01-6	<b>Trichloroethylene</b>	<b>50</b>		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 19:42	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	06/24/2014 16:54	06/25/2014 06:29	SS

**Surrogate Recoveries**

**Result**

**Acceptance Range**

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %	81-123
460-00-4	Surrogate: p-Bromofluorobenzene	107 %	70-128
2037-26-5	Surrogate: Toluene-d8	99.6 %	88-114



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 14F0847-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14F0847

7538-MRNY

Water

June 17, 2014 4:19 pm

06/19/2014

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
75-34-3	<b>1,1-Dichloroethane</b>	<b>10</b>	J	ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
75-35-4	<b>1,1-Dichloroethylene</b>	<b>5.2</b>	J	ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
527-53-7	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
78-93-3	2-Butanone	ND		ug/L	12	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
95-49-8	2-Chlorotoluene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
591-78-6	2-Hexanone	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
106-43-4	4-Chlorotoluene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
67-64-1	Acetone	ND		ug/L	25	50	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
71-43-2	Benzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
108-86-1	Bromobenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
74-97-5	Bromochloromethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
75-27-4	Bromodichloromethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
75-25-2	Bromoform	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
74-83-9	Bromomethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
75-15-0	Carbon disulfide	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
56-23-5	Carbon tetrachloride	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
108-90-7	Chlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS





### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 14F0847-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14F0847

7538-MRNY

Water

June 17, 2014 4:19 pm

06/19/2014

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
67-66-3	Chloroform	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
74-87-3	Chloromethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>110</b>		ug/L	4.0	10	20	EPA 8260C	06/24/2014 16:54	06/25/2014 20:14	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
124-48-1	Dibromochloromethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
74-95-3	Dibromomethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
100-41-4	Ethyl Benzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
98-82-8	Isopropylbenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
75-09-2	Methylene chloride	ND		ug/L	25	50	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
91-20-3	Naphthalene	ND		ug/L	25	50	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
104-51-8	n-Butylbenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
103-65-1	n-Propylbenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
95-47-6	o-Xylene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	12	25	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
105-05-5	* p-Diethylbenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
622-96-8	* p-Ethyltoluene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
135-98-8	sec-Butylbenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
100-42-5	Styrene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
98-06-6	tert-Butylbenzene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>150</b>		ug/L	4.0	10	20	EPA 8260C	06/24/2014 16:54	06/25/2014 20:14	SS
108-88-3	Toluene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>41</b>		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
79-01-6	<b>Trichloroethylene</b>	<b>560</b>		ug/L	4.0	10	20	EPA 8260C	06/24/2014 16:54	06/25/2014 20:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	5.0	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
75-01-4	Vinyl Chloride	ND		ug/L	12	12	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
1330-20-7	Xylenes, Total	ND		ug/L	15	38	25	EPA 8260C	06/24/2014 16:54	06/25/2014 07:01	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %		81-123							
460-00-4	Surrogate: p-Bromofluorobenzene	102 %		70-128							
2037-26-5	Surrogate: Toluene-d8	100 %		88-114							



## Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 14F0847-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14F0847

7538-MRNY

Water

June 17, 2014 1:15 pm

06/19/2014

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
527-53-7	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
78-93-3	2-Butanone	ND		ug/L	0.50	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 14F0847-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14F0847

7538-MRNY

Water

June 17, 2014 1:15 pm

06/19/2014

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>0.63</b>		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
79-01-6	<b>Trichloroethylene</b>	<b>0.32</b>	J	ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	06/24/2014 16:54	06/25/2014 07:33	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %			81-123						
460-00-4	Surrogate: p-Bromofluorobenzene	99.7 %			70-128						
2037-26-5	Surrogate: Toluene-d8	102 %			88-114						



## Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 14F0847-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14F0847

7538-MRNY

Water

June 17, 2014 2:10 pm

06/19/2014

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
527-53-7	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
78-93-3	2-Butanone	ND		ug/L	5.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
591-78-6	2-Hexanone	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
67-64-1	<b>Acetone</b>	<b>20</b>	<b>B</b>	ug/L	10	20	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
71-43-2	Benzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
108-86-1	Bromobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
74-97-5	Bromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
75-25-2	Bromoform	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
75-15-0	Carbon disulfide	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
108-90-7	Chlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 14F0847-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14F0847

7538-MRNY

Water

June 17, 2014 2:10 pm

06/19/2014

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
67-66-3	Chloroform	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
74-87-3	Chloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>340</b>		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
74-95-3	Dibromomethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
75-09-2	Methylene chloride	ND		ug/L	10	20	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
91-20-3	Naphthalene	ND		ug/L	10	20	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
95-47-6	o-Xylene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
105-05-5	* p-Diethylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
622-96-8	* p-Ethyltoluene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
100-42-5	Styrene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
108-88-3	Toluene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>13</b>		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
79-01-6	<b>Trichloroethylene</b>	<b>7.7</b>		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
75-01-4	Vinyl Chloride	ND		ug/L	5.0	5.0	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
1330-20-7	Xylenes, Total	ND		ug/L	6.0	15	10	EPA 8260C	06/24/2014 16:54	06/25/2014 08:06	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	81-123								
460-00-4	Surrogate: p-Bromofluorobenzene	102 %	70-128								
2037-26-5	Surrogate: Toluene-d8	98.7 %	88-114								



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 14F0847-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14F0847

7538-MRNY

Water

June 17, 2014 12:05 pm

06/19/2014

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
527-53-7	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
78-93-3	2-Butanone	ND		ug/L	0.50	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 14F0847-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14F0847

7538-MRNY

Water

June 17, 2014 12:05 pm

06/19/2014

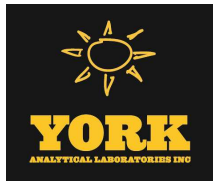
**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>14</b>		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
75-01-4	<b>Vinyl Chloride</b>	<b>0.57</b>		ug/L	0.50	0.50	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	06/24/2014 16:54	06/25/2014 08:37	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	81-123								
460-00-4	Surrogate: p-Bromofluorobenzene	98.6 %	70-128								
2037-26-5	Surrogate: Toluene-d8	102 %	88-114								



### Volatile Analysis Sample Containers

<b>Lab ID</b>	<b>Client Sample ID</b>	<b>Volatile Sample Container</b>
14F0847-01	MW-1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14F0847-02	MW-1D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14F0847-03	MW-2S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14F0847-04	MW-2D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14F0847-05	MW-3D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C





## Notes and Definitions

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
<hr/>	
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.	
If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.	
2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.	
Certification for pH is no longer offered by NYDOH ELAP.	
Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.	



**YORK**  
ANALYTICAL LABORATORIES INC

YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 14F0847

<b>YOUR Information</b> Company: <u>ADVANCED CIGANUP TECHNIQUES</u> Address: <u>110 MAIN ST</u> <u>PORT WASHINGTON, NY 11050</u> Phone No. <u>516-441-5800</u> Contact Person: <u>JEFF DIAMOND</u> E-Mail Address: <u>JEFFREY@ACTENVIRON.COM</u>		<b>Report To:</b> Company: <u>SAMC</u> Address: <u>SAMC</u> Phone No. <u>SAMC</u> Attention: <u>THERESA BURKARD</u> E-Mail Address: <u>THERESA@ACTENVIRON.COM</u>		<b>Invoice To:</b> Company: <u>SAMC</u> Address: <u>SAMC</u> Phone No. <u>SAMC</u> Attention: <u>KAREN FRIDMAN</u> E-Mail Address:		<b>YOUR Project ID</b> <u>7538-MRNY</u> <b>Purchase Order No.</b> <u>7538-MRNY</u> Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>		<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard (5-7 Days) <input checked="" type="checkbox"/>		<b>Report Type</b> Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CTRCP DQA/DUE Pkg <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NJDEP Red. Deliv. <input type="checkbox"/> <u>Electronic Data Deliverables (EDD)</u> Simple Excel <input type="checkbox"/> NYSDEC EQUIS <input type="checkbox"/> EQUIS (std) <input type="checkbox"/> EZ-EDD (EQUIS) <input type="checkbox"/> NJDEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other <input type="checkbox"/> <b>York Regulatory Comparison</b> Excel Spreadsheet <input type="checkbox"/> Compare to the following Regs. (please fill in):	
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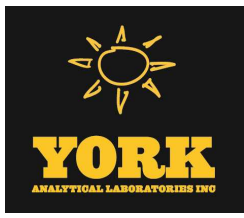
**Print Clearly and Legibly. All Information must be complete.**  
**Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Volatiles	Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624 Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE Ketones	PAH list	App. IX	IAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list 524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxin/Furans Full List	BTU/lb.
Arom. only 502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog. only NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App. IX list SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list	SPLP or TCLP	608 PCB	Helium		TAGM	Silica

JEFF DIAMOND / TIM YOUNG  
Samples Collected/Authorized By (Signature)  
Jeff Diamond  
Name (printed)

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-1S	6/17/14 / 1530	GW	8260-FULL	3-40ml vials w/ Hcl
MW-1D	6/17/14 - 1619	GW	8260-FULL	3-40ml vials w/ Hcl
MW-2S	6/17/14 1315	GW	8260 FULL	3-40ml vials w/ Hcl
MW-2D	6/17/14 - 1410	GW	8260 FULL	3-40ml AMBER vials w/ Hcl
MW3D	6/17/14 1205	GW	8260 FULL	3-40ml AMBER vials w/ Hcl

Comments	Preservation Check those Applicable 4°C <input checked="" type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/>	HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/>	Temperature on Receipt <u>1130</u>	
	Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	Samples Relinquished By <u>Jeff Diamond</u> Date/Time <u>6/19 11:30</u>	Samples Received By <u>TC Yahn</u> Date/Time <u>6/19/14 1230</u>	Temperature on Receipt <u>29.00</u>
	Samples Relinquished By Date/Time	Samples Received in LAB by Date/Time		



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Theresa Burkard**

Report Date: 10/09/2014  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 14J0164

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/09/2014  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 14J0164

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Theresa Burkard

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 02, 2014 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
14J0164-01	Drum-A	Waste Water	10/01/2014	10/02/2014
14J0164-02	Drum-B	Waste Water	10/01/2014	10/02/2014
14J0164-03	Drum-C	Waste Water	10/01/2014	10/02/2014
14J0164-04	Drum-E	Waste Water	10/01/2014	10/02/2014
14J0164-05	Drum-F	Waste Water	10/01/2014	10/02/2014

## **General Notes for York Project (SDG) No.: 14J0164**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 10/09/2014





### Sample Information

**Client Sample ID:** Drum-A

**York Sample ID:** 14J0164-01

York Project (SDG) No.  
14J0164

Client Project ID  
7538-MRNY

Matrix  
Waste Water

Collection Date/Time  
October 1, 2014 12:50 pm

Date Received  
10/02/2014

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
67-64-1	Acetone	ND		ug/L	5.0	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS



### Sample Information

**Client Sample ID:** Drum-A

**York Sample ID:** 14J0164-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0164

7538-MRNY

Waste Water

October 1, 2014 12:50 pm

10/02/2014

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:11	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	111 %			65-135						
460-00-4	Surrogate: p-Bromofluorobenzene	91.1 %			81-114						
2037-26-5	Surrogate: Toluene-d8	97.4 %			86-118						



### Sample Information

**Client Sample ID:** Drum-B

**York Sample ID:** 14J0164-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0164

7538-MRNY

Waste Water

October 1, 2014 1:05 pm

10/02/2014

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
67-64-1	Acetone	ND		ug/L	5.0	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS





### Sample Information

**Client Sample ID:** Drum-B

**York Sample ID:** 14J0164-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0164

7538-MRNY

Waste Water

October 1, 2014 1:05 pm

10/02/2014

### Volatile Organics, 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 05:40	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	115 %			65-135						
460-00-4	Surrogate: p-Bromofluorobenzene	96.0 %			81-114						
2037-26-5	Surrogate: Toluene-d8	95.8 %			86-118						

### Sample Information

**Client Sample ID:** Drum-C

**York Sample ID:** 14J0164-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0164

7538-MRNY

Waste Water

October 1, 2014 1:20 pm

10/02/2014



### Sample Information

**Client Sample ID:** Drum-C

**York Sample ID:** 14J0164-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0164

7538-MRNY

Waste Water

October 1, 2014 1:20 pm

10/02/2014

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
67-64-1	<b>Acetone</b>	<b>11</b>		ug/L	5.0	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 06:09	SS



Sample Information

Client Sample ID: Drum-C

York Sample ID: 14J0164-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0164

7538-MRNY

Waste Water

October 1, 2014 1:20 pm

10/02/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include various organic compounds like Dibromochloromethane, Ethyl Benzene, etc., and surrogate recoveries.

Sample Information

Client Sample ID: Drum-E

York Sample ID: 14J0164-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0164

7538-MRNY

Waste Water

October 1, 2014 2:05 pm

10/02/2014

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:



### Sample Information

**Client Sample ID:** Drum-E

**York Sample ID:** 14J0164-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0164

7538-MRNY

Waste Water

October 1, 2014 2:05 pm

10/02/2014

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
67-64-1	Acetone	ND		ug/L	5.0	10	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS



### Sample Information

**Client Sample ID:** Drum-E

**York Sample ID:** 14J0164-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0164

7538-MRNY

Waste Water

October 1, 2014 2:05 pm

10/02/2014

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C	10/08/2014 16:11	10/09/2014 02:30	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	110 %			65-135						
460-00-4	Surrogate: p-Bromofluorobenzene	96.1 %			81-114						
2037-26-5	Surrogate: Toluene-d8	102 %			86-118						

### Sample Information

**Client Sample ID:** Drum-F

**York Sample ID:** 14J0164-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0164

7538-MRNY

Waste Water

October 1, 2014 2:25 pm

10/02/2014

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**



## Sample Information

**Client Sample ID:** Drum-F

**York Sample ID:** 14J0164-05

York Project (SDG) No.

14J0164

Client Project ID

7538-MRNY

Matrix

Waste Water

Collection Date/Time

October 1, 2014 2:25 pm

Date Received

10/02/2014

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
78-93-3	<b>2-Butanone</b>	<b>2.5</b>	J	ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
67-64-1	<b>Acetone</b>	<b>11</b>		ug/L	5.0	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS



### Sample Information

**Client Sample ID:** Drum-F

**York Sample ID:** 14J0164-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0164

7538-MRNY

Waste Water

October 1, 2014 2:25 pm

10/02/2014

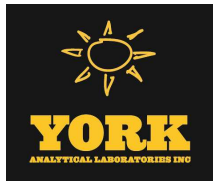
**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C	10/07/2014 16:57	10/08/2014 07:07	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	114 %			65-135						
460-00-4	Surrogate: p-Bromofluorobenzene	93.9 %			81-114						
2037-26-5	Surrogate: Toluene-d8	98.6 %			86-118						



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
14J0164-01	Drum-A	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14J0164-02	Drum-B	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14J0164-03	Drum-C	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14J0164-04	Drum-E	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14J0164-05	Drum-F	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C





## Notes and Definitions

J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
<hr/>	
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

Page      of     

York Project No. 14J0164

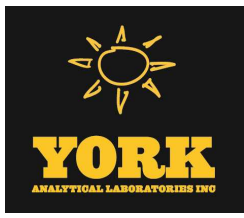
NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

<b>YOUR Information</b> Company: <u>Advanced Cleanup Tech</u> Address: <u>110 Main Street</u> <u>Port Washington, NY</u> Phone No. <u>516-441-5800</u> Contact Person: <u>Tim Young</u> <u>timy@atenviro.com</u> E-Mail Address:		<b>Report To:</b> Company: <u>Same</u> Address: <u>Same</u> Phone No. <u>Same</u> Attention: <u>Theresa Burkard</u> <u>thensub@atenviro.com</u> E-Mail Address:		<b>Invoice To:</b> Company: <u>Same</u> Address: <u>Same</u> Phone No. <u>Same</u> Attention: <u>Karen Friedman</u> <u>KarenF@atenviro.com</u> E-Mail Address:		<b>YOUR Project ID</b> <u>7538-MRWY</u> <b>Purchase Order No.</b>  Samples from: CT NY NJ		<b>Turn-Around Time</b> <input type="checkbox"/> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input checked="" type="checkbox"/> <b>Standard(5-7 Days)</b>		<b>Report Type</b> <input checked="" type="checkbox"/> Summary Report <input type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CTRCP DQA/DUE Pkg <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NJ DEP Red. Deliv. <u>Electronic Data Deliverables (EDD)</u> <input type="checkbox"/> Simple Excel <input type="checkbox"/> NYSDEC EQuIS <input type="checkbox"/> EQuIS (std) <input type="checkbox"/> EZ-EDD (EQuIS) <input type="checkbox"/> NJ DEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other <input type="checkbox"/> York Regulatory Comparison <input type="checkbox"/> Excel Spreadsheet Compare to the following Regs. (please fill in):	
---	--	---	--	--	--	---	--	--	--	--	--

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Samples Collected/Authorized By (Signature)  
Tim Young  
 Name (printed)  
Tim Young

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
Drum - A	10/1/14 12:50	WW	VOC's (8260 Full)	3 vials
Drum - B	1305		"	"
Drum - C	1320		"	"
<del>Drum - D</del>	<del>1350</del>	<del> </del>	<del>"</del>	<del>"</del>
Drum - E	1405	WW	"	"
Drum - F	1425	WW	"	"
<b>Comments</b> Preservation Check those Applicable: <input type="checkbox"/> Special Instructions <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter 4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other Samples Relinquished By <u>Tim Young</u> Date/Time <u>10/2/14 1540</u> Samples Relinquished By <u>TC</u> Date/Time <u>10/2/14 1815</u> Samples Received in LAB by <u>K Burkard</u> Date/Time <u>10/2/14 PM</u> Temperature on Receipt <u>4.6</u> °C				



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 05/06/2015  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 15D0976

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 05/06/2015  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 15D0976

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

---

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 24, 2015 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
15D0976-01	MW-3D	Water	04/24/2015	04/24/2015
15D0976-02	MW-2s	Water	04/24/2015	04/24/2015
15D0976-03	MW-2D	Water	04/24/2015	04/24/2015
15D0976-04	MW-1D	Water	04/24/2015	04/24/2015
15D0976-05	MW-1s	Water	04/24/2015	04/24/2015

## **General Notes for York Project (SDG) No.: 15D0976**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 05/06/2015





### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 15D0976-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15D0976	7538-MRNY	Water	April 24, 2015 10:45 am	04/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 15D0976-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0976

7538-MRNY

Water

April 24, 2015 10:45 am

04/24/2015

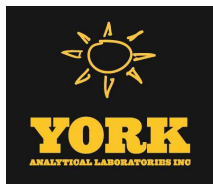
**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
591-78-6	<b>2-Hexanone</b>	<b>0.25</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
67-64-1	Acetone	ND	SCAL-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
107-02-8	Acrolein	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>1.8</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 15D0976-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0976

7538-MRNY

Water

April 24, 2015 10:45 am

04/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	05/04/2015 07:51	05/04/2015 18:37	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	05/04/2015 07:51	05/04/2015 18:37	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS





### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 15D0976-01

<u>York Project (SDG) No.</u> 15D0976	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> April 24, 2015 10:45 am	<u>Date Received</u> 04/24/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	05/04/2015 07:51	05/04/2015 18:37	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	94.2 %			79-122						
2037-26-5	Surrogate: Toluene-d8	102 %			81-117						

### Sample Information

**Client Sample ID:** MW-2s

**York Sample ID:** 15D0976-02

<u>York Project (SDG) No.</u> 15D0976	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> April 24, 2015 11:50 am	<u>Date Received</u> 04/24/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS



### Sample Information

**Client Sample ID:** MW-2s

**York Sample ID:** 15D0976-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0976

7538-MRNY

Water

April 24, 2015 11:50 am

04/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
78-93-3	<b>2-Butanone</b>	<b>1.0</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
591-78-6	<b>2-Hexanone</b>	<b>0.24</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
67-64-1	<b>Acetone</b>	<b>1.4</b>	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS



### Sample Information

**Client Sample ID:** MW-2s

**York Sample ID:** 15D0976-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0976

7538-MRNY

Water

April 24, 2015 11:50 am

04/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	05/05/2015 17:41	05/06/2015 01:05	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	05/05/2015 17:41	05/06/2015 01:05	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS



### Sample Information

**Client Sample ID:** MW-2s

**York Sample ID:** 15D0976-02

<u>York Project (SDG) No.</u> 15D0976	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> April 24, 2015 11:50 am	<u>Date Received</u> 04/24/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	05/05/2015 17:41	05/06/2015 01:05	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	91.8 %	79-122								
2037-26-5	Surrogate: Toluene-d8	100 %	81-117								

### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 15D0976-03

<u>York Project (SDG) No.</u> 15D0976	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> April 24, 2015 1:10 pm	<u>Date Received</u> 04/24/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 15D0976-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0976

7538-MRNY

Water

April 24, 2015 1:10 pm

04/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
74-97-5	Bromochloromethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	20	50	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
123-91-1	1,4-Dioxane	ND		ug/L	1000	2000	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
110-82-7	Cyclohexane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
78-93-3	2-Butanone	ND		ug/L	20	50	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
591-78-6	2-Hexanone	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 15D0976-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0976

7538-MRNY

Water

April 24, 2015 1:10 pm

04/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
67-64-1	Acetone	44	SCAL- E, J, B	ug/L	25	50	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
107-02-8	Acrolein	ND		ug/L	20	50	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
107-13-1	Acrylonitrile	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
71-43-2	Benzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
75-27-4	Bromodichloromethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
75-25-2	Bromoform	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
74-83-9	Bromomethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
75-15-0	Carbon disulfide	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
56-23-5	Carbon tetrachloride	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
108-90-7	Chlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
75-00-3	Chloroethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
67-66-3	Chloroform	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
74-87-3	Chloromethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
156-59-2	cis-1,2-Dichloroethylene	590		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
124-48-1	Dibromochloromethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
74-95-3	Dibromomethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
100-41-4	Ethyl Benzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
108-87-2	Methylcyclohexane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 15D0976-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0976

7538-MRNY

Water

April 24, 2015 1:10 pm

04/24/2015

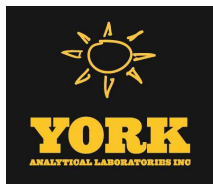
**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
79-20-9	Methyl acetate	ND		ug/L	5.0	12	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
75-09-2	Methylene chloride	ND		ug/L	25	50	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
104-51-8	n-Butylbenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
103-65-1	n-Propylbenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
95-47-6	o-Xylene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: NELAC-NY10854	05/04/2015 07:51	05/04/2015 19:42	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	12	25	25	EPA 8260C Certifications: NELAC-NY10854	05/04/2015 07:51	05/04/2015 19:42	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
135-98-8	sec-Butylbenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
100-42-5	Styrene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	20	50	25	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
98-06-6	tert-Butylbenzene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
127-18-4	Tetrachloroethylene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
108-88-3	Toluene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>29</b>		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
79-01-6	Trichloroethylene	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
75-01-4	Vinyl Chloride	ND		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS
1330-20-7	* Xylenes, Total	ND		ug/L	15	38	25	EPA 8260C Certifications: CTDOH,NJDEP	05/04/2015 07:51	05/04/2015 19:42	SS



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 15D0976-03

<u>York Project (SDG) No.</u> 15D0976	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> April 24, 2015 1:10 pm	<u>Date Received</u> 04/24/2015
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#### Volatile Organics, NJDEP/TCL/Part 375 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %			69	130					
460-00-4	Surrogate: p-Bromofluorobenzene	96.0 %			79	122					
2037-26-5	Surrogate: Toluene-d8	101 %			81	117					

### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 15D0976-04

<u>York Project (SDG) No.</u> 15D0976	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> April 24, 2015 2:15 pm	<u>Date Received</u> 04/24/2015
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#### Volatile Organics, NJDEP/TCL/Part 375 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
74-97-5	Bromochloromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	160	400	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS





### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 15D0976-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0976

7538-MRNY

Water

April 24, 2015 2:15 pm

04/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
123-91-1	1,4-Dioxane	ND		ug/L	8000	16000	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
110-82-7	Cyclohexane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
78-93-3	2-Butanone	ND		ug/L	160	400	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
591-78-6	2-Hexanone	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
67-64-1	Acetone	400	SCAL- E, B	ug/L	200	400	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
107-02-8	Acrolein	ND		ug/L	160	400	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
107-13-1	Acrylonitrile	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
71-43-2	Benzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
75-27-4	Bromodichloromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
75-25-2	Bromoform	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
74-83-9	Bromomethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
75-15-0	Carbon disulfide	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
56-23-5	Carbon tetrachloride	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
108-90-7	Chlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
75-00-3	Chloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 15D0976-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0976

7538-MRNY

Water

April 24, 2015 2:15 pm

04/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
74-87-3	Chloromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>850</b>		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
124-48-1	Dibromochloromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
74-95-3	Dibromomethane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
100-41-4	Ethyl Benzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
108-87-2	Methylcyclohexane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
98-82-8	Isopropylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
79-20-9	Methyl acetate	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
75-09-2	Methylene chloride	ND		ug/L	200	400	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
104-51-8	n-Butylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
103-65-1	n-Propylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
95-47-6	o-Xylene	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854	05/04/2015 07:51	05/04/2015 20:23	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	100	200	200	EPA 8260C Certifications: NELAC-NY10854	05/04/2015 07:51	05/04/2015 20:23	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
135-98-8	sec-Butylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
100-42-5	Styrene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 15D0976-04

<u>York Project (SDG) No.</u> 15D0976	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> April 24, 2015 2:15 pm	<u>Date Received</u> 04/24/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	160	400	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
98-06-6	tert-Butylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
127-18-4	Tetrachloroethylene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
108-88-3	Toluene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
79-01-6	<b>Trichloroethylene</b>	<b>3800</b>		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
75-01-4	Vinyl Chloride	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
1330-20-7	* Xylenes, Total	ND		ug/L	120	300	200	EPA 8260C Certifications: CTDOH,NJDEP	05/04/2015 07:51	05/04/2015 20:23	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	112 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	90.9 %	79-122								
2037-26-5	Surrogate: Toluene-d8	99.0 %	81-117								

### Sample Information

**Client Sample ID:** MW-1s

**York Sample ID:** 15D0976-05

<u>York Project (SDG) No.</u> 15D0976	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> April 24, 2015 3:10 pm	<u>Date Received</u> 04/24/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS



### Sample Information

**Client Sample ID:** MW-1s

**York Sample ID:** 15D0976-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0976

7538-MRNY

Water

April 24, 2015 3:10 pm

04/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
74-97-5	Bromochloromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	160	400	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
123-91-1	1,4-Dioxane	ND		ug/L	8000	16000	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
110-82-7	Cyclohexane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
78-93-3	2-Butanone	ND		ug/L	160	400	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
591-78-6	2-Hexanone	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
67-64-1	Acetone	320	SCAL- E, J, B	ug/L	200	400	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS



### Sample Information

**Client Sample ID:** MW-1s

**York Sample ID:** 15D0976-05

York Project (SDG) No.

Client Project ID

Matrix

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15D0976

7538-MRNY

Water

April 24, 2015 3:10 pm

04/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		ug/L	160	400	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
107-13-1	Acrylonitrile	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
71-43-2	Benzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
75-27-4	Bromodichloromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
75-25-2	Bromoform	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
74-83-9	Bromomethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
75-15-0	Carbon disulfide	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
56-23-5	Carbon tetrachloride	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
108-90-7	Chlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
75-00-3	Chloroethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
67-66-3	Chloroform	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
74-87-3	Chloromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>790</b>		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
124-48-1	Dibromochloromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
74-95-3	Dibromomethane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
100-41-4	Ethyl Benzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
108-87-2	Methylcyclohexane	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
98-82-8	Isopropylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
79-20-9	Methyl acetate	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS



### Sample Information

**Client Sample ID:** MW-1s

**York Sample ID:** 15D0976-05

York Project (SDG) No.

Client Project ID

Matrix

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15D0976

7538-MRNY

Water

April 24, 2015 3:10 pm

04/24/2015

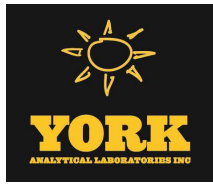
**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
75-09-2	Methylene chloride	ND		ug/L	200	400	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
104-51-8	n-Butylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
103-65-1	n-Propylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
95-47-6	o-Xylene	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854	05/04/2015 07:51	05/04/2015 20:55	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	100	200	200	EPA 8260C Certifications: NELAC-NY10854	05/04/2015 07:51	05/04/2015 20:55	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
135-98-8	sec-Butylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
100-42-5	Styrene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	160	400	200	EPA 8260C Certifications: NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
98-06-6	tert-Butylbenzene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>6100</b>		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
108-88-3	Toluene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
79-01-6	<b>Trichloroethylene</b>	<b>780</b>		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
75-01-4	Vinyl Chloride	ND		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
1330-20-7	* Xylenes, Total	ND		ug/L	120	300	200	EPA 8260C Certifications: CTDOH,NJDEP	05/04/2015 07:51	05/04/2015 20:55	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	105 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	93.8 %	79-122								
2037-26-5	Surrogate: Toluene-d8	103 %	81-117								



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**Sample Information**

**Client Sample ID:** MW-1s

**York Sample ID:** 15D0976-05

York Project (SDG) No.  
15D0976

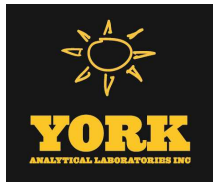
Client Project ID  
7538-MRNY

Matrix  
Water

Collection Date/Time  
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04/24/2015

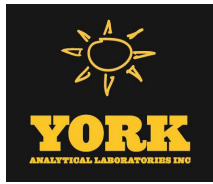
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### Volatile Analysis Sample Containers

<b>Lab ID</b>	<b>Client Sample ID</b>	<b>Volatile Sample Container</b>
15D0976-01	MW-3D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15D0976-02	MW-2s	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15D0976-03	MW-2D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15D0976-04	MW-1D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15D0976-05	MW-1s	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C





## Notes and Definitions

- SCAL-E The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
- B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

- 
- \* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

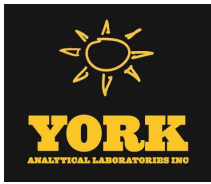
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 15D0976

<b>YOUR Information</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project ID</b>		<b>Turn-Around Time</b>		<b>Report Type</b>	
Company: <u>Advanced Cleanup Tech</u>		Company: <u>ACT</u>		Company: <u>ACT</u>		<u>7538-MRNY</u>		RUSH - Same Day <input type="checkbox"/>		Summary Report <input checked="" type="checkbox"/>	
Address: <u>110 Main St</u> <u>Durt Washington</u>		Address: <u>Same</u>		Address: <u>Same</u>				RUSH - Next Day <input type="checkbox"/>		Summary w/ QA Summary <input type="checkbox"/>	
Phone No. <u>510-441-5800</u>		Phone No. _____		Phone No. _____		<b>Purchase Order No.</b>		RUSH - Two Day <input type="checkbox"/>		CTRCP DQA/DUE Pkg <input type="checkbox"/>	
Contact Person: <u>Tim Yang</u>		Attention: <u>Morini Shapiro</u>		Attention: <u>Karen Friedman</u>				RUSH - Three Day <input type="checkbox"/>		NY ASP A Package <input type="checkbox"/>	
E-Mail Address: <u>timy@actclean.com</u>		E-Mail Address: <u>morini@actclean.com</u>		E-Mail Address: <u>KarenF@actclean.com</u>		Samples from: CT ___ NY <input checked="" type="checkbox"/> NJ ___		RUSH - Four Day <input type="checkbox"/>		NJDEP Red. Deliv. <input type="checkbox"/>	
								<b>Standard(5-7 Days)</b> <input checked="" type="checkbox"/>		<b>Electronic Data Deliverables (EDD)</b>	

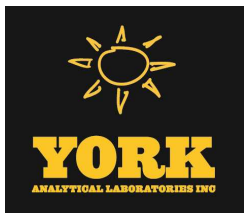
**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Samples Collected/Authorized By (Signature)  
Tim Yang  
Name (printed)

Volatiles	Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624 Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list 524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Equivalents No Dioxin/Furans	BTU/lb.
Arom. only 502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Equivalents Full List	Aquatic Tox.
Halog. only NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEP Sewer	Asbestos
8021B list	SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-3D	4/24/15 1045	GW	VOC's	3 VOA's
MW-2s	4/24/15 1150	GW	VOC's	3 VOA's
MW-2D	" 1310	GW	"	"
MW-4D	" 1415	GW	"	"
MW-7s	" 1510	GW	"	"

Page 25 of 25	Comments	Preservation	4°C _____ Frozen _____ HCl _____ MeOH _____ HNO <sub>3</sub> _____ H <sub>2</sub> SO <sub>4</sub> _____ NaOH _____	Temperature on Receipt <u>4.4 °C</u>
		Check those Applicable	ZnAc _____ Ascorbic Acid _____ Other _____	
		Special Instructions	<u>ILR R</u> <u>4/24/15</u>	
		Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	Samples Relinquished By <u>KBode</u> <u>4/24/15</u> Date/Time	
		Samples Relinquished By _____ Date/Time	Samples Received By <u>KBode</u> <u>4/24/15</u> Date/Time	
		Samples Relinquished By _____ Date/Time	Samples Received in LAB by <u>TC</u> <u>4/24/15 1630</u> Date/Time	



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Theresa Burkard**

Report Date: 04/30/2015  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 15D0978

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 04/30/2015  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 15D0978

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Theresa Burkard

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 24, 2015 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
15D0978-01	Effl.	Vapor Extraction	04/23/2015	04/24/2015
15D0978-02	Infl.	Vapor Extraction	04/23/2015	04/24/2015

## General Notes for York Project (SDG) No.: 15D0978

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 04/30/2015





### Sample Information

**Client Sample ID:** Effl.

**York Sample ID:** 15D0978-01

York Project (SDG) No.  
15D0978

Client Project ID  
7538-MRNY

Matrix  
Vapor Extraction

Collection Date/Time  
April 23, 2015 3:00 pm

Date Received  
04/24/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.34	0.69	1	EPA TO-15 Certifications:	04/29/2015 10:01	04/29/2015 22:43	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.74	0.74	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>12</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.70	0.70	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>3.1</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications:	04/29/2015 10:01	04/29/2015 22:43	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.36	0.36	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
78-93-3	<b>2-Butanone</b>	<b>8.9</b>		ug/m <sup>3</sup>	0.29	0.29	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD



### Sample Information

**Client Sample ID:** Efl.

**York Sample ID:** 15D0978-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

15D0978

7538-MRNY

Vapor Extraction

April 23, 2015 3:00 pm

04/24/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	0.82	0.82	1	EPA TO-15 Certifications:	04/29/2015 10:01	04/29/2015 22:43	ALD
107-05-1	* 3-Chloropropene	ND		ug/m <sup>3</sup>	0.31	0.31	1	EPA TO-15 Certifications:	04/29/2015 10:01	04/29/2015 22:43	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
67-64-1	<b>Acetone</b>	<b>38</b>		ug/m <sup>3</sup>	0.24	0.24	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
107-13-1	* Acrylonitrile	ND		ug/m <sup>3</sup>	0.22	0.22	1	EPA TO-15 Certifications:	04/29/2015 10:01	04/29/2015 22:43	ALD
71-43-2	<b>Benzene</b>	<b>2.8</b>		ug/m <sup>3</sup>	0.32	0.32	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.52	0.52	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.62	0.62	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.0	1.0	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.39	0.39	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.31	0.31	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.16	0.16	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
67-66-3	<b>Chloroform</b>	<b>21</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
74-87-3	<b>Chloromethane</b>	<b>0.93</b>		ug/m <sup>3</sup>	0.21	0.21	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
110-82-7	<b>Cyclohexane</b>	<b>0.55</b>		ug/m <sup>3</sup>	0.34	0.34	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	0.80	0.80	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.5</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
141-78-6	* <b>Ethyl acetate</b>	<b>3.2</b>		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications:	04/29/2015 10:01	04/29/2015 22:43	ALD



### Sample Information

**Client Sample ID:** Effl.

**York Sample ID:** 15D0978-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0978

7538-MRNY

Vapor Extraction

April 23, 2015 3:00 pm

04/24/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	<b>Ethyl Benzene</b>	<b>4.5</b>		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.1	1.1	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
67-63-0	<b>Isopropanol</b>	<b>3.6</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.36	0.36	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
75-09-2	<b>Methylene chloride</b>	<b>14</b>		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
110-54-3	<b>n-Hexane</b>	<b>5.4</b>		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
95-47-6	<b>o-Xylene</b>	<b>6.4</b>		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>18</b>		ug/m <sup>3</sup>	0.87	0.87	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
622-96-8	<b>* p-Ethyltoluene</b>	<b>9.1</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
115-07-1	<b>* Propylene</b>	ND		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
127-18-4	<b>Tetrachloroethylene</b>	<b>5.8</b>		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
109-99-9	<b>* Tetrahydrofuran</b>	<b>4.9</b>		ug/m <sup>3</sup>	0.29	0.29	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
108-88-3	<b>Toluene</b>	<b>24</b>		ug/m <sup>3</sup>	0.38	0.38	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.13	0.13	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>0.84</b>		ug/m <sup>3</sup>	0.56	0.56	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.44	0.44	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.064	0.064	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/29/2015 10:01	04/29/2015 22:43	ALD





### Sample Information

**Client Sample ID:** Efl.

**York Sample ID:** 15D0978-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0978

7538-MRNY

Vapor Extraction

April 23, 2015 3:00 pm

04/24/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: p-Bromofluorobenzene	94.7 %			72-118						

### Sample Information

**Client Sample ID:** Infl.

**York Sample ID:** 15D0978-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0978

7538-MRNY

Vapor Extraction

April 23, 2015 3:00 pm

04/24/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	3.4	6.9	10	EPA TO-15 Certifications:	04/28/2015 10:55	04/29/2015 06:39	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	5.5	5.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	6.9	6.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	7.7	7.7	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	5.5	5.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	4.0	4.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	4.0	4.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	7.4	7.4	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>6.9</b>		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	7.7	7.7	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	6.0	6.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	4.0	4.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	4.6	4.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	7.0	7.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD



### Sample Information

**Client Sample ID:** Infl.

**York Sample ID:** 15D0978-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15D0978

7538-MRNY

Vapor Extraction

April 23, 2015 3:00 pm

04/24/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	4.3	4.3	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	6.0	6.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	4.6	4.6	10	EPA TO-15 Certifications:	04/28/2015 10:55	04/29/2015 06:39	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	6.0	6.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	3.6	3.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
78-93-3	<b>2-Butanone</b>	<b>5.9</b>		ug/m <sup>3</sup>	2.9	2.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	8.2	8.2	10	EPA TO-15 Certifications:	04/28/2015 10:55	04/29/2015 06:39	ALD
107-05-1	* 3-Chloropropene	ND		ug/m <sup>3</sup>	3.1	3.1	10	EPA TO-15 Certifications:	04/28/2015 10:55	04/29/2015 06:39	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	4.1	4.1	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
67-64-1	<b>Acetone</b>	<b>19</b>		ug/m <sup>3</sup>	2.4	2.4	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
107-13-1	* Acrylonitrile	ND		ug/m <sup>3</sup>	2.2	2.2	10	EPA TO-15 Certifications:	04/28/2015 10:55	04/29/2015 06:39	ALD
71-43-2	Benzene	ND		ug/m <sup>3</sup>	3.2	3.2	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	5.2	5.2	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	6.2	6.2	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	10	10	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	3.9	3.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	3.1	3.1	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	1.6	1.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	4.6	4.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	2.6	2.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD



### Sample Information

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15D0978

7538-MRNY

Vapor Extraction

April 23, 2015 3:00 pm

04/24/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	2.1	2.1	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>160</b>		ug/m <sup>3</sup>	4.0	4.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	4.5	4.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	3.4	3.4	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	8.0	8.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	7.2	7.2	10	EPA TO-15 Certifications:	04/28/2015 10:55	04/29/2015 06:39	ALD
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	4.3	4.3	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	11	11	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	4.1	4.1	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	3.6	3.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	6.9	6.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	4.1	4.1	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	3.5	3.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
95-47-6	<b>o-Xylene</b>	<b>4.3</b>		ug/m <sup>3</sup>	4.3	4.3	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>12</b>		ug/m <sup>3</sup>	8.7	8.7	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
622-96-8	* <b>p-Ethyltoluene</b>	<b>5.4</b>		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications:	04/28/2015 10:55	04/29/2015 06:39	ALD
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	1.7	1.7	10	EPA TO-15 Certifications:	04/28/2015 10:55	04/29/2015 06:39	ALD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	4.3	4.3	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
127-18-4	<b>Tetrachloroethylene</b>	<b>1400</b>		ug/m <sup>3</sup>	1.7	1.7	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	2.9	2.9	10	EPA TO-15 Certifications:	04/28/2015 10:55	04/29/2015 06:39	ALD



### Sample Information

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**York Sample ID:** 15D0978-02

York Project (SDG) No.

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15D0978

7538-MRNY

Vapor Extraction

April 23, 2015 3:00 pm

04/24/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	<b>Toluene</b>	<b>17</b>		ug/m <sup>3</sup>	3.8	3.8	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	4.0	4.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	4.5	4.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
79-01-6	<b>Trichloroethylene</b>	<b>250</b>		ug/m <sup>3</sup>	1.3	1.3	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	5.6	5.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	3.5	3.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	4.4	4.4	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.64	0.64	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2015 10:55	04/29/2015 06:39	ALD
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	92.5 %			72-118						



## Notes and Definitions

QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

# YORK

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615  
(203) 325-1371 FAX (203) 357-0166

## Field Chain-of-Custody Record - AIR

Page 1 of     

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 1500978

<b>YOUR Information</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project ID</b>		<b>Turn-Around Time</b>		<b>Report Type/Deliverables</b>	
Company: <u>ACT</u>		Company: <u>ACT</u>		Company: <u>ACT</u>		<u>7538-MRNY</u>		RUSH - Same Day <input type="checkbox"/>		Summary Report <input checked="" type="checkbox"/>	
Address: <u>110 Main St, #103</u>		Address: <u>103 Main St</u>		Address: <u>110 Main St</u>				RUSH - Next Day <input type="checkbox"/>		Summary w/ QA Summary <input type="checkbox"/>	
Phone No. <u>516-441-5800</u>		Phone No. <u>516-441-5800</u>		Phone No. <u>516-441-5800</u>				RUSH - Two Day <input type="checkbox"/>		CT RCP Package <input type="checkbox"/>	
Contact Person: <u>Marina Shapiro</u>		Attention: <u>Marina Shapiro</u>		Attention: <u>Karen Friedman</u>		<b>Purchase Order No.</b>		RUSH - Three Day <input type="checkbox"/>		NY ASP A Package <input type="checkbox"/>	
E-Mail Address: <u>marinas@actenviro.com</u>		E-Mail Address: <u>marinas@actenviro.com</u>		E-Mail Address: <u>karenf@actenviro.com</u>				RUSH - Four Day <input type="checkbox"/>		NY ASP B/CLP Pkg <input type="checkbox"/>	
						Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>		Standard(5-7 Days) <input checked="" type="checkbox"/>		NJDEP Reduced <input type="checkbox"/>	

*Print Clearly and Legibly. All information must be submitted. Samples will NOT be logged in and the analytical clock will not begin until any questions or issues are resolved.*

Masha  
Samples Collected/Authorized By (Signature)  
Marina Shapiro  
Name (printed)

**Air Matrix Codes**  
AI - INDOOR Ambient Air  
AO - OUTDOOR Amb. Air  
AE - Vapor Extraction Well/Process Gas/Effluent  
AS - SOIL Vapor/Sub-Slab

**TO15 Volatiles and Other Gas Analyses**  
EPA TO-15 List  
EPA TO-14A List  
NYSDEC VI list  
Tentatively Identified Compounds  
NYSDEC STARS List  
Air VPH  
Project Specific List by TO-15  
Helium  
NJDEP Target List  
Methane  
CTDEP RCP Target List  
OTHER

**Detection Limits Required**  
≤ 1 ug/m<sup>3</sup>  
NYSDEC VI Limits   
(VI vapor intrusion)  
NJDEP low level   
Routine Survey   
Other

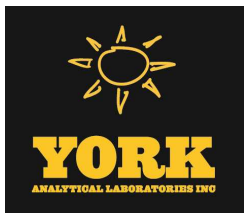
**Special Instructions**

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Choose Analyses Needed from the Menu Above and Enter Below	Sampling Media
<u>Effl.</u>	<u>4-23-15</u>	<u>AE</u>			<u>TO-15</u>	6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input checked="" type="checkbox"/>
<u>Infl.</u>	<u>4-23-15</u>	<u>AE</u>			<u>TO-15</u>	6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input checked="" type="checkbox"/>
						6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/>
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						6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/>
						6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/>

Page 11 of 11

Mr. Ross 4/24/15 10 AM  
Samples Relinquished By Date/Time  
K Baker 4/24/15  
Samples Relinquished By Date/Time

K Baker 4/24/15 10 AM  
Samples Received By Date/Time  
R Pace 4-24-15 1630  
Samples Received in LAB by Date/Time



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 08/20/2015  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 15H0535

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 08/20/2015  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 15H0535

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 17, 2015 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
15H0535-01	7538-MRNY-Inf.	Vapor Extraction	08/14/2015	08/17/2015

## General Notes for York Project (SDG) No.: 15H0535

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 08/20/2015







### Sample Information

**Client Sample ID:** 7538-MRNY-Inf.

**York Sample ID:** 15H0535-01

York Project (SDG) No.  
15H0535

Client Project ID  
7538-MRNY

Matrix  
Vapor Extraction

Collection Date/Time  
August 14, 2015 3:00 pm

Date Received  
08/17/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	14	14	19.76	EPA TO-15 Certifications:	08/18/2015 09:59	08/19/2015 13:32	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	14	14	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	15	15	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	8.0	8.0	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.8	7.8	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	15	15	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.7	9.7	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	15	15	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	8.0	8.0	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	9.1	9.1	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	14	14	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.7	9.7	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	26	26	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	9.1	9.1	19.76	EPA TO-15 Certifications:	08/18/2015 09:59	08/19/2015 13:32	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	14	14	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.8	5.8	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD



### Sample Information

**Client Sample ID:** 7538-MRNY-Inf.

**York Sample ID:** 15H0535-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15H0535

7538-MRNY

Vapor Extraction

August 14, 2015 3:00 pm

08/17/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	16	16	19.76	EPA TO-15 Certifications:	08/18/2015 09:59	08/19/2015 13:32	ALD
107-05-1	* 3-Chloropropene	ND		ug/m <sup>3</sup>	31	31	19.76	EPA TO-15 Certifications:	08/18/2015 09:59	08/19/2015 13:32	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	8.1	8.1	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
67-64-1	Acetone	ND		ug/m <sup>3</sup>	9.4	9.4	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
107-13-1	* Acrylonitrile	ND		ug/m <sup>3</sup>	4.3	4.3	19.76	EPA TO-15 Certifications:	08/18/2015 09:59	08/19/2015 13:32	ALD
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.3	6.3	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	10	10	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	12	12	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	20	20	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.7	7.7	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	6.2	6.2	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.1	3.1	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	9.1	9.1	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.2	5.2	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.6	9.6	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	4.1	4.1	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>74</b>		ug/m <sup>3</sup>	7.8	7.8	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	9.0	9.0	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.8	6.8	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	16	16	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.8	9.8	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	14	14	19.76	EPA TO-15 Certifications:	08/18/2015 09:59	08/19/2015 13:32	ALD



### Sample Information

**Client Sample ID:** 7538-MRNY-Inf.

**York Sample ID:** 15H0535-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

15H0535

7538-MRNY

Vapor Extraction

August 14, 2015 3:00 pm

08/17/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.6	8.6	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	21	21	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.7	9.7	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	8.1	8.1	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	7.1	7.1	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	14	14	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	8.1	8.1	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	7.0	7.0	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.6	8.6	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	17	17	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.7	9.7	19.76	EPA TO-15 Certifications:	08/18/2015 09:59	08/19/2015 13:32	ALD
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.4	3.4	19.76	EPA TO-15 Certifications:	08/18/2015 09:59	08/19/2015 13:32	ALD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.4	8.4	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
127-18-4	<b>Tetrachloroethylene</b>	<b>1500</b>		ug/m <sup>3</sup>	3.4	3.4	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	12	12	19.76	EPA TO-15 Certifications:	08/18/2015 09:59	08/19/2015 13:32	ALD
108-88-3	Toluene	ND		ug/m <sup>3</sup>	7.4	7.4	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.8	7.8	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	9.0	9.0	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
79-01-6	<b>Trichloroethylene</b>	<b>220</b>		ug/m <sup>3</sup>	2.7	2.7	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	11	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	7.0	7.0	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.6	8.6	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD



**Sample Information**

**Client Sample ID:** 7538-MRNY-Inf.

**York Sample ID:** 15H0535-01

York Project (SDG) No.  
15H0535

Client Project ID  
7538-MRNY

Matrix  
Vapor Extraction

Collection Date/Time  
August 14, 2015 3:00 pm

Date Received  
08/17/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	5.1	5.1	19.76	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/18/2015 09:59	08/19/2015 13:32	ALD
	<b>Surrogate Recoveries</b>	<b>Result</b>									
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	94.4 %									
											<b>Acceptance Range</b> 72-118



## Notes and Definitions

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



# Field Chain-of-Custody Record - AIR

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 15H0535

<b>YOUR Information</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project ID</b>		<b>Turn-Around Time</b>		<b>Report Type/Deliverables</b>	
Company: <u>ACT</u>		Company: <u>ACT</u>		Company: <u>ACT</u>		<u>7538-MRNY</u>		RUSH - Same Day <input type="checkbox"/>		Summary Report <input checked="" type="checkbox"/>	
Address: <u>110 Main St #102</u>		Address: _____		Address: _____		Purchase Order No. _____		RUSH - Next Day <input type="checkbox"/>		Summary w/ QA Summary _____	
Address: <u>Port Wash NY 11050</u>		Address: _____		Address: _____		_____		RUSH - Two Day <input type="checkbox"/>		CT RCP Package _____	
Phone No. <u>516-441-5800</u>		Phone No. _____		Phone No. _____		_____		RUSH - Three Day <input type="checkbox"/>		NY ASP A Package _____	
Contact Person: <u>Marina Shapiro</u>		Attention: <u>Marina Shapiro</u>		Attention: <u>Karen Friedman</u>		Samples from: CT _____ NY <input checked="" type="checkbox"/> NJ _____		RUSH - Four Day <input type="checkbox"/>		NY ASP B/CLP Pkg _____	
E-Mail Address: <u>marinas@actenvi.com</u>		E-Mail Address: <u>marinas@actenvi.com</u>		E-Mail Address: <u>rons.com</u>		Standard (5-7 Days) <input checked="" type="checkbox"/>		Electronic Deliverables:		NJDEP Reduced _____	
E-Mail Address: _____		E-Mail Address: _____		E-Mail Address: _____		_____		EDD (Specify Type) _____		Standard Excel _____	

*Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.*

Marina Shapiro  
 Samples Collected/Authorized By (Signature)  
Masha  
 Name (printed)

- Air Matrix Codes**
- AI - INDOOR Ambient Air
  - AO- OUTDOOR Amb. Air
  - AE- Vapor Extraction Well/ Process Gas/Effluent
  - AS- SOIL Vapor/Sub-Slab

Additional Notes:  
 \_\_\_\_\_  
**Please enter the following Field Data**  
 ↓ ↓ ↓ ↓

- Detection Limits Required**
- ≤ 1 ug/m<sup>3</sup> \_\_\_\_\_
  - NYSDEC VI Limits \_\_\_\_\_
  - (VI = vapor intrusion)
  - NJDEP low level \_\_\_\_\_
  - Routine Survey \_\_\_\_\_
  - Other \_\_\_\_\_

**Special Instructions**

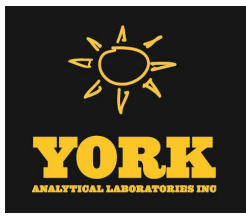
\_\_\_\_\_

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
<u>7538-MRNY-Inf.</u>	<u>8/14/15</u>	<u>AE</u>		<u>-4</u>	<u>18301</u>	<u>NONE</u>	<u>T0-15</u>	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag

Comments  
Please analyze just 1 canister. I messed up the 2<sup>nd</sup> one

Samples Relinquished By [Signature] Date/Time 8/17/15 11:30 AM  
 Samples Relinquished By [Signature] Date/Time 8-17-15

Samples Received By [Signature] Date/Time 8/17/15 11:30 AM  
 Samples Received in LAB by [Signature] Date/Time 8/17/15 1817



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 09/24/2015  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 15I0685

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 09/24/2015  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 15I0685

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 18, 2015 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
15I0685-01	INFL	Soil Vapor	09/17/2015	09/18/2015
15I0685-02	EFF	Soil Vapor	09/17/2015	09/18/2015

## General Notes for York Project (SDG) No.: 15I0685

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Date: 09/24/2015

Robert Q. Bradley  
Senior Scientist / Technical Director







### Sample Information

**Client Sample ID:** INFL

**York Sample ID:** 1510685-01

York Project (SDG) No.  
1510685

Client Project ID  
7538-MRNY

Matrix  
Soil Vapor

Collection Date/Time  
September 17, 2015 3:00 pm

Date Received  
09/18/2015

**Volatile Organics, EPA TO15 Full List**

Log-in Notes: TO-TD

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	6.9	6.9	10	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 21:55	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	5.5	5.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	6.9	6.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	7.7	7.7	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	5.5	5.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	4.0	4.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	4.0	4.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	7.4	7.4	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>5.9</b>		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	7.7	7.7	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	6.0	6.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	4.0	4.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	4.6	4.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	7.0	7.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	13	13	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	6.0	6.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	4.6	4.6	10	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 21:55	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	6.0	6.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	7.2	7.2	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
78-93-3	<b>2-Butanone</b>	<b>12</b>		ug/m <sup>3</sup>	2.9	2.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD



### Sample Information

**Client Sample ID:** INFL

**York Sample ID:** 1510685-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

1510685

7538-MRNY

Soil Vapor

September 17, 2015 3:00 pm

09/18/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:** TO-TD

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	8.2	8.2	10	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 21:55	ALD
107-05-1	* 3-Chloropropene	ND		ug/m <sup>3</sup>	16	16	10	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 21:55	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	4.1	4.1	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
67-64-1	<b>Acetone</b>	<b>23</b>		ug/m <sup>3</sup>	4.8	4.8	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
107-13-1	* Acrylonitrile	ND		ug/m <sup>3</sup>	2.2	2.2	10	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 21:55	ALD
71-43-2	Benzene	ND		ug/m <sup>3</sup>	3.2	3.2	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	5.2	5.2	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	6.2	6.2	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	10	10	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	3.9	3.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	3.1	3.1	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	1.6	1.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	4.6	4.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	2.6	2.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	2.1	2.1	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>78</b>		ug/m <sup>3</sup>	4.0	4.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	4.5	4.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	3.4	3.4	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	8.0	8.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	7.2	7.2	10	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 21:55	ALD



### Sample Information

**Client Sample ID:** INFL

**York Sample ID:** 1510685-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510685

7538-MRNY

Soil Vapor

September 17, 2015 3:00 pm

09/18/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:** TO-TD

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	4.3	4.3	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	11	11	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	4.1	4.1	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	3.6	3.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
75-09-2	<b>Methylene chloride</b>	<b>17</b>		ug/m <sup>3</sup>	6.9	6.9	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	4.1	4.1	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
110-54-3	<b>n-Hexane</b>	<b>11</b>		ug/m <sup>3</sup>	3.5	3.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
95-47-6	<b>o-Xylene</b>	<b>4.3</b>		ug/m <sup>3</sup>	4.3	4.3	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>13</b>		ug/m <sup>3</sup>	8.7	8.7	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	4.9	4.9	10	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 21:55	ALD
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	1.7	1.7	10	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 21:55	ALD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	4.3	4.3	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
127-18-4	<b>Tetrachloroethylene</b>	<b>1000</b>		ug/m <sup>3</sup>	1.7	1.7	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	5.9	5.9	10	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 21:55	ALD
108-88-3	<b>Toluene</b>	<b>23</b>		ug/m <sup>3</sup>	3.8	3.8	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	4.0	4.0	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	4.5	4.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
79-01-6	<b>Trichloroethylene</b>	<b>220</b>		ug/m <sup>3</sup>	1.3	1.3	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	5.6	5.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	3.5	3.5	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	4.4	4.4	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD



### Sample Information

**Client Sample ID:** INFL

**York Sample ID:** 1510685-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510685

7538-MRNY

Soil Vapor

September 17, 2015 3:00 pm

09/18/2015

### Volatile Organics, EPA TO15 Full List

Log-in Notes: TO-TD

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	2.6	2.6	10	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 21:55	ALD
	<b>Surrogate Recoveries</b>	<b>Result</b>				<b>Acceptance Range</b>					
460-00-4	Surrogate: p-Bromofluorobenzene	97.6 %				72-118					

### Sample Information

**Client Sample ID:** EFF

**York Sample ID:** 1510685-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510685

7538-MRNY

Soil Vapor

September 17, 2015 3:00 pm

09/18/2015

### Volatile Organics, EPA TO15 Full List

Log-in Notes: TO-TD

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	3.4	3.4	5	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 22:46	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	2.7	2.7	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	3.4	3.4	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	3.8	3.8	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	2.7	2.7	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	2.0	2.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	2.0	2.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	3.7	3.7	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>9.8</b>		ug/m <sup>3</sup>	2.5	2.5	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	3.8	3.8	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	3.0	3.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	2.0	2.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	2.3	2.3	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD



### Sample Information

**Client Sample ID:** EFF

**York Sample ID:** 1510685-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510685

7538-MRNY

Soil Vapor

September 17, 2015 3:00 pm

09/18/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:** TO-TD

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	3.5	3.5	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>2.7</b>		ug/m <sup>3</sup>	2.5	2.5	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	6.5	6.5	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	3.0	3.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	2.3	2.3	5	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 22:46	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	3.0	3.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	3.6	3.6	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
78-93-3	<b>2-Butanone</b>	<b>13</b>		ug/m <sup>3</sup>	1.5	1.5	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	4.1	4.1	5	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 22:46	ALD
107-05-1	* 3-Chloropropene	ND		ug/m <sup>3</sup>	7.8	7.8	5	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 22:46	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	2.0	2.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
67-64-1	<b>Acetone</b>	<b>120</b>		ug/m <sup>3</sup>	2.4	2.4	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
107-13-1	* Acrylonitrile	ND		ug/m <sup>3</sup>	1.1	1.1	5	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 22:46	ALD
71-43-2	<b>Benzene</b>	<b>4.8</b>		ug/m <sup>3</sup>	1.6	1.6	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	2.6	2.6	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	3.1	3.1	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	5.2	5.2	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	1.9	1.9	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	1.6	1.6	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.79	0.79	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	2.3	2.3	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	1.3	1.3	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD



### Sample Information

**Client Sample ID:** EFF

**York Sample ID:** 1510685-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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1510685

7538-MRNY

Soil Vapor

September 17, 2015 3:00 pm

09/18/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:** TO-TD

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	2.4	2.4	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	1.0	1.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	2.0	2.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	2.3	2.3	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	1.7	1.7	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	4.0	4.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
75-71-8	<b>Dichlorodifluoromethane</b>	<b>5.2</b>		ug/m <sup>3</sup>	2.5	2.5	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	3.6	3.6	5	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 22:46	ALD
100-41-4	<b>Ethyl Benzene</b>	<b>4.8</b>		ug/m <sup>3</sup>	2.2	2.2	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	5.3	5.3	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
67-63-0	<b>Isopropanol</b>	<b>24</b>		ug/m <sup>3</sup>	2.5	2.5	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	2.0	2.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	1.8	1.8	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
75-09-2	<b>Methylene chloride</b>	<b>19</b>		ug/m <sup>3</sup>	3.5	3.5	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	2.0	2.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
110-54-3	<b>n-Hexane</b>	<b>14</b>		ug/m <sup>3</sup>	1.8	1.8	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
95-47-6	<b>o-Xylene</b>	<b>6.1</b>		ug/m <sup>3</sup>	2.2	2.2	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>18</b>		ug/m <sup>3</sup>	4.3	4.3	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
622-96-8	* <b>p-Ethyltoluene</b>	<b>7.6</b>		ug/m <sup>3</sup>	2.5	2.5	5	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 22:46	ALD
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.86	0.86	5	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 22:46	ALD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	2.1	2.1	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
127-18-4	<b>Tetrachloroethylene</b>	<b>11</b>		ug/m <sup>3</sup>	0.85	0.85	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
109-99-9	* <b>Tetrahydrofuran</b>	<b>3.2</b>		ug/m <sup>3</sup>	2.9	2.9	5	EPA TO-15 Certifications:	09/22/2015 14:23	09/23/2015 22:46	ALD



**Sample Information**

**Client Sample ID:** EFF

**York Sample ID:** 1510685-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510685

7538-MRNY

Soil Vapor

September 17, 2015 3:00 pm

09/18/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:** TO-TD

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	<b>Toluene</b>	<b>25</b>		ug/m <sup>3</sup>	1.9	1.9	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	2.0	2.0	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	2.3	2.3	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.67	0.67	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>4.8</b>		ug/m <sup>3</sup>	2.8	2.8	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	1.8	1.8	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	2.2	2.2	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	1.3	1.3	5	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/22/2015 14:23	09/23/2015 22:46	ALD
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
460-00-4	Surrogate: p-Bromofluorobenzene	97.4 %			72-118						



## Notes and Definitions

- TO-TD The sample was received in a tedlar bag which is not compliant with EPA TO-15 requirements.
- QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

- 
- \* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.

For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

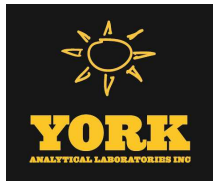
2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.







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(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

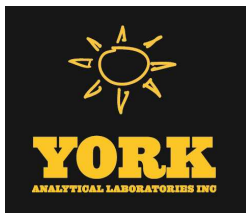
Page 1 of 1

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 1510685

<b>YOUR Information</b> Company: <u>ACT</u> Address: <u>110 Main St #103</u> <u>Port Washington, NY 11050</u> Phone No. <u>516-441-5800</u> Contact Person: <u>Marina Shapiro</u> E-Mail Address: <u>marinas@actenviro.com</u>		<b>Report To:</b> Company: <u>ACT</u> Address: _____ Phone No. _____		<b>Invoice To:</b> Company: <u>ACT</u> Address: _____ Phone No. _____		<b>YOUR Project ID</b> <u>7538-M2NY</u> <b>Purchase Order No.</b> _____		<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard (5-7 Days) <input checked="" type="checkbox"/>		<b>Report Type</b> <input checked="" type="checkbox"/> Summary Report <input type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CTRCP DQA/DUE Pkg <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NUDEP Red. Deliv. <u>Electronic Data Deliverables (EDD)</u> <input type="checkbox"/> Simple Excel <input type="checkbox"/> NYSEDEC EQulS <input type="checkbox"/> EQulS (std) <input type="checkbox"/> EZ-EDD (EQulS) <input type="checkbox"/> NUDEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other <input type="checkbox"/> York Regulatory Comparison <input type="checkbox"/> Excel Spreadsheet Compare to the following Regs. (please fill in): _____ _____	
<b>Matrix Codes</b> S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		<b>Metals</b> RCRA8 TPH 3 list CT ETPH NY 310-13 TPH 1664 Air TO 14A Air TO 15 Air STARS Air VPH Air TICs Methane Helium		<b>Misc. Org.</b> TPH GRO TPH DRO TAL MetCN Full TCLP Full App. IX Part 360-Routine Part 360-Residue Part 360-Residue Part 360-Residue NYDEP Sewer NYSEDEC Sewer TAGM		<b>Misc.</b> Corrosivity Reactivity Ignitability Flash Point Sieve Anal. Heterotrophs TOX BTU/lb. Aquatic Tox. NYDEP Sewer TOC Asbestos Silica		<b>Other</b> _____ _____		<b>Standard (5-7 Days)</b> <input checked="" type="checkbox"/>	

<b>Sample Identification</b> <u>INFL</u> <u>EFF</u>		<b>Date/Time Sampled</b> <u>9/17/15</u> <u>9/17/15</u>		<b>Sample Matrix</b> <u>Air-SV</u> <u>Air-SV</u>		<b>Choose Analyses Needed from the Menu Above and Enter Below</b> <u>T015</u> <u>T015</u>		<b>Container Description(s)</b> <u>test/er bag</u> <u>test/er bag</u>	
<b>Comments</b> _____ _____		<b>Preservation</b> Check those Applicable Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>		<b>4°C</b> _____ <b>Frozen</b> _____ <b>ZnAc</b> _____ <b>HCl</b> _____ <b>HNO<sub>3</sub></b> _____ <b>H<sub>2</sub>O</b> _____ <b>NaOH</b> _____ <b>Other</b> _____		<b>Temperature on Receipt</b> <u>1010</u>		<b>Date/Time</b> <u>9/18/15 1010</u> <u>9/18/15 1633</u>	



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 10/01/2015  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 15I0840

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/01/2015  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 15I0840

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 24, 2015 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
15I0840-01	MW-3D	Water	09/23/2015	09/24/2015
15I0840-02	MW-2D	Water	09/23/2015	09/24/2015
15I0840-03	MW-2S	Water	09/23/2015	09/24/2015
15I0840-04	MW-1D	Water	09/23/2015	09/24/2015
15I0840-05	MW-1S	Water	09/23/2015	09/24/2015

## **General Notes for York Project (SDG) No.: 15I0840**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 10/01/2015





### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 1510840-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
1510840	7538-MRNY	Water	September 23, 2015 10:15 am	09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 1510840-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 10:15 am

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>3.5</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 1510840-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 10:15 am

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	09/30/2015 08:50	09/30/2015 18:35	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	09/30/2015 08:50	09/30/2015 18:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS





### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 1510840-01

York Project (SDG) No. 1510840      Client Project ID 7538-MRNY      Matrix Water      Collection Date/Time September 23, 2015 10:15 am      Date Received 09/24/2015

#### Volatile Organics, NJDEP/TCL/Part 375 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	09/30/2015 08:50	09/30/2015 18:35	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	95.8 %			79-122						
2037-26-5	Surrogate: Toluene-d8	105 %			81-117						

### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 1510840-02

York Project (SDG) No. 1510840      Client Project ID 7538-MRNY      Matrix Water      Collection Date/Time September 23, 2015 11:25 am      Date Received 09/24/2015

#### Volatile Organics, NJDEP/TCL/Part 375 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
74-97-5	Bromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS



## Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 1510840-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 11:25 am

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
123-91-1	1,4-Dioxane	ND		ug/L	200	400	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
110-82-7	Cyclohexane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
78-93-3	2-Butanone	ND		ug/L	1.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
591-78-6	2-Hexanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
67-64-1	<b>Acetone</b>	<b>5.4</b>	CCV-E SCAL- E, J	ug/L	5.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
107-02-8	Acrolein	ND		ug/L	1.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
71-43-2	Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
75-27-4	Bromodichloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
75-25-2	Bromoform	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
74-83-9	Bromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
75-15-0	Carbon disulfide	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 1510840-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 11:25 am

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
108-90-7	Chlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
75-00-3	Chloroethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
67-66-3	Chloroform	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
74-87-3	Chloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>240</b>		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
124-48-1	Dibromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
74-95-3	Dibromomethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
100-41-4	Ethyl Benzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
108-87-2	Methylcyclohexane	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
98-82-8	Isopropylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
79-20-9	Methyl acetate	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
75-09-2	Methylene chloride	ND		ug/L	5.0	10	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
104-51-8	n-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
103-65-1	n-Propylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
95-47-6	o-Xylene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854	09/30/2015 08:50	09/30/2015 21:27	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 21:27	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	2.5	5.0	5	EPA 8260C Certifications: NELAC-NY10854	09/30/2015 08:50	09/30/2015 21:27	SS



Sample Information

Client Sample ID: MW-2D

York Sample ID: 1510840-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 11:25 am

09/24/2015

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include various organic compounds like p-Isopropyltoluene, sec-Butylbenzene, Styrene, etc.

Surrogate Recoveries

Result

Acceptance Range

Table with 3 columns: Surrogate, Result, Acceptance Range. Rows include 1,2-Dichloroethane-d4, p-Bromofluorobenzene, Toluene-d8.

Sample Information

Client Sample ID: MW-2S

York Sample ID: 1510840-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 12:20 pm

09/24/2015

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table header for Volatile Organics analysis with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst.



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 1510840-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 12:20 pm

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
78-93-3	<b>2-Butanone</b>	<b>1.8</b>	J	ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 1510840-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 12:20 pm

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>3.0</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS



## Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 1510840-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 12:20 pm

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	09/30/2015 08:50	09/30/2015 19:10	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	09/30/2015 08:50	09/30/2015 19:10	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>0.81</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>0.25</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 19:10	SS



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 1510840-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 12:20 pm

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	09/30/2015 08:50	09/30/2015 19:10	SS
								Certifications: CTDOH,NJDEP			
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	96.9 %			79-122						
2037-26-5	Surrogate: Toluene-d8	104 %			81-117						

### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 1510840-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 1:30 pm

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
75-35-4	<b>1,1-Dichloroethylene</b>	<b>6.0</b>	J	ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
74-97-5	Bromochloromethane	ND		ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: NELAC-NY10854,NJDEP			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: NELAC-NY10854,NJDEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: NELAC-NY10854,NJDEP			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	4.0	10	20	EPA 8260C	09/30/2015 08:50	09/30/2015 22:02	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP			





## Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 1510840-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 1:30 pm

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
123-91-1	1,4-Dioxane	ND		ug/L	800	1600	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
110-82-7	Cyclohexane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
78-93-3	2-Butanone	ND		ug/L	4.0	40	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
591-78-6	2-Hexanone	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
67-64-1	Acetone	ND		ug/L	20	40	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
107-02-8	Acrolein	ND		ug/L	4.0	40	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
107-13-1	Acrylonitrile	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
71-43-2	Benzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
75-27-4	Bromodichloromethane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
75-25-2	Bromoform	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
74-83-9	Bromomethane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
75-15-0	Carbon disulfide	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
56-23-5	Carbon tetrachloride	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
108-90-7	Chlorobenzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 1510840-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 1:30 pm

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
67-66-3	Chloroform	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
74-87-3	Chloromethane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>880</b>		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
124-48-1	Dibromochloromethane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
74-95-3	Dibromomethane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
100-41-4	Ethyl Benzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
108-87-2	Methylcyclohexane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
98-82-8	Isopropylbenzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
79-20-9	Methyl acetate	ND		ug/L	4.0	10	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
75-09-2	Methylene chloride	ND		ug/L	20	40	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
104-51-8	n-Butylbenzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
103-65-1	n-Propylbenzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
95-47-6	o-Xylene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: NELAC-NY10854	09/30/2015 08:50	09/30/2015 22:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	10	20	20	EPA 8260C Certifications: NELAC-NY10854	09/30/2015 08:50	09/30/2015 22:02	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
135-98-8	sec-Butylbenzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 1510840-04

<u>York Project (SDG) No.</u> 1510840	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 23, 2015 1:30 pm	<u>Date Received</u> 09/24/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	10	40	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
98-06-6	tert-Butylbenzene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>1100</b>		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
108-88-3	Toluene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>47</b>		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
79-01-6	<b>Trichloroethylene</b>	<b>6400</b>		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 20:20	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
75-01-4	Vinyl Chloride	ND		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS
1330-20-7	* Xylenes, Total	ND		ug/L	12	30	20	EPA 8260C Certifications: CTDOH,NJDEP	09/30/2015 08:50	09/30/2015 22:02	SS

**Surrogate Recoveries**

**Result**

**Acceptance Range**

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	69-130
460-00-4	Surrogate: p-Bromofluorobenzene	98.3 %	79-122
2037-26-5	Surrogate: Toluene-d8	102 %	81-117

### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 1510840-05

<u>York Project (SDG) No.</u> 1510840	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> September 23, 2015 2:15 pm	<u>Date Received</u> 09/24/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS



## Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 1510840-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1510840

7538-MRNY

Water

September 23, 2015 2:15 pm

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
74-97-5	Bromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
123-91-1	1,4-Dioxane	ND		ug/L	400	800	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
110-82-7	Cyclohexane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
78-93-3	2-Butanone	ND		ug/L	2.0	20	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
591-78-6	2-Hexanone	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 1510840-05

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7538-MRNY

Water

September 23, 2015 2:15 pm

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	12	CCV-E	ug/L	10	20	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
			SCAL-E, J								
107-02-8	Acrolein	ND		ug/L	2.0	20	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
107-13-1	Acrylonitrile	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
71-43-2	Benzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
75-25-2	Bromoform	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
75-15-0	Carbon disulfide	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
108-90-7	Chlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
75-00-3	Chloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
67-66-3	Chloroform	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
74-87-3	Chloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
156-59-2	cis-1,2-Dichloroethylene	720		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
74-95-3	Dibromomethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
108-87-2	Methylcyclohexane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 1510840-05

York Project (SDG) No.

Client Project ID

Matrix

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1510840

7538-MRNY

Water

September 23, 2015 2:15 pm

09/24/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
79-20-9	Methyl acetate	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
75-09-2	Methylene chloride	ND		ug/L	10	20	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
95-47-6	o-Xylene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854	09/30/2015 08:50	09/30/2015 22:37	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	10	EPA 8260C Certifications: NELAC-NY10854	09/30/2015 08:50	09/30/2015 22:37	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
100-42-5	Styrene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	5.0	20	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>1400</b>		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
108-88-3	Toluene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>8.4</b>		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
79-01-6	<b>Trichloroethylene</b>	<b>720</b>		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
75-01-4	<b>Vinyl Chloride</b>	<b>5.3</b>		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS
1330-20-7	* Xylenes, Total	ND		ug/L	6.0	15	10	EPA 8260C Certifications: CTDOH,NJDEP	09/30/2015 08:50	09/30/2015 22:37	SS

Surrogate Recoveries

Result

Acceptance Range



**Sample Information**

**Client Sample ID:** MW-1S

**York Sample ID:** 1510840-05

York Project (SDG) No.  
1510840

Client Project ID  
7538-MRNY

Matrix  
Water

Collection Date/Time  
September 23, 2015 2:15 pm

Date Received  
09/24/2015

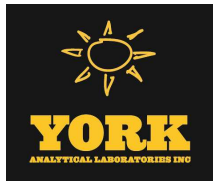
**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	112 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	94.4 %			79-122						
2037-26-5	Surrogate: Toluene-d8	102 %			81-117						



### Volatile Analysis Sample Containers

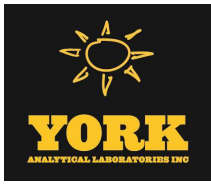
<b>Lab ID</b>	<b>Client Sample ID</b>	<b>Volatile Sample Container</b>
15I0840-01	MW-3D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15I0840-02	MW-2D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15I0840-03	MW-2S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15I0840-04	MW-1D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15I0840-05	MW-1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C





## Notes and Definitions

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
<hr/>	
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.	
If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.	
2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.	
Certification for pH is no longer offered by NYDOH ELAP.	
Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.	



For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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**YORK**  
ANALYTICAL LABORATORIES INC

YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 1510840

<b>YOUR Information</b>		<b>Report To:</b>	<b>Invoice To:</b>	<b>YOUR Project ID</b>	<b>Turn-Around Time</b>	<b>Report Type</b>
Company: <u>Advanced Cleanup Tech</u>		Company: _____	Company: _____	<u>7538 - MRNY</u>	RUSH - Same Day <input type="checkbox"/>	Summary Report <input checked="" type="checkbox"/>
Address: <u>110 Main St.</u> <u>Port Washington NY</u>		Address: _____	Address: _____		RUSH - Next Day <input type="checkbox"/>	Summary w/ QA Summary _____
Phone No. <u>516 441 5800</u>		Phone No. _____	Phone No. _____	<b>Purchase Order No.</b>	RUSH - Two Day <input type="checkbox"/>	CT RCP Package _____
Contact Person: <u>Tim Young</u>		Attention: <u>Marcia Shapiro</u>	Attention: <u>Karen Friedman</u>	Samples from: CT ___ NY ___ NJ ___	RUSH - Three Day <input type="checkbox"/>	CTRCP DQA/DUE Pkg _____
E-Mail Address: <u>amy@ectenvi.com</u>		E-Mail Address: <u>marciar@ectenvi.com</u>	E-Mail Address: <u>Kara@ectenvi.com</u>		RUSH - Four Day <input type="checkbox"/>	NY ASP A Package _____
					<b>Standard(5-7 Days)</b> <input checked="" type="checkbox"/>	NY ASP B Package _____
						NJDEP Red. Deliv. _____

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Tim Young  
Samples Collected/Authorized By (Signature)

Tim Young  
Name (printed)

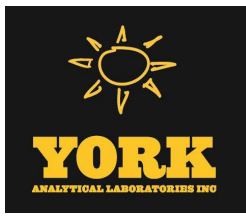
**Matrix Codes**  
S - soil  
Other - specify(oil, etc.)  
WW - wastewater  
GW - groundwater  
DW - drinking water  
Air-A - ambient air  
Air-SV - soil vapor

Volatiles	Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full TICs	8270 or 625 STARS list	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624 Site Spec.	BN Only	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list Nassau Co.	Acids Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX Suffolk Co.	PAH list	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE Ketones	TAGM list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list 524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxin/Furans	BTU/lb.
Arom. only 502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog. only NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App. IX list SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list	SPLP or TCLP	608 PCB		Helium	TAGM	Silica

**Electronic Data Deliverables (EDD)**  
Simple Excel \_\_\_\_\_  
NYSDEC EQuIS \_\_\_\_\_  
EQuIS (std) \_\_\_\_\_  
EZ-EDD (EQuIS) \_\_\_\_\_  
NJDEP SRP HazSite EDD \_\_\_\_\_  
GIS/KEY (std) \_\_\_\_\_  
Other \_\_\_\_\_  
**York Regulatory Comparison**  
**Excel Spreadsheet**  
Compare to the following Regs. (please fill in):  
\_\_\_\_\_

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-3D	9/23/15 1015	GW	VOC's	3 VOC's
MW-2D	" 1125	"	"	"
MW-2s	" 1220	"	"	"
MW-1D	" 1330	"	"	"
MW-1s	" 1415	"	"	"

Page 25 of 25	Comments	<b>Preservation</b> Check those Applicable Special Instructions _____ Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	$4^{\circ}\text{C}$ _____ Frozen _____ HCl _____ MeOH _____ HNO <sub>3</sub> _____ H <sub>2</sub> SO <sub>4</sub> _____ NaOH _____ ZnAc _____ Ascorbic Acid _____ Other _____	<b>Temperature on Receipt</b> <u>4.2</u> °C
		Samples Relinquished By <u>Tim Young</u> Date/Time <u>9/24 9AM</u>	Samples Received By <u>TC Puh</u> Date/Time <u>9/24 9AM</u>	
		Samples Relinquished By <u>Marcia Shapiro</u> Date/Time <u>9-24-15</u>	Samples Received in LAB by _____ Date/Time _____	



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 11/02/2015  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 15J0955

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 11/02/2015  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 15J0955

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 26, 2015 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
15J0955-01	7538 - INFL	Vapor Extraction	10/23/2015	10/26/2015
15J0955-02	7538 - EFF	Vapor Extraction	10/23/2015	10/26/2015

## General Notes for York Project (SDG) No.: 15J0955

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 11/02/2015





### Sample Information

**Client Sample ID:** 7538 - INFL

**York Sample ID:** 15J0955-01

York Project (SDG) No.  
15J0955

Client Project ID  
7538-MRNY

Matrix  
Vapor Extraction

Collection Date/Time  
October 23, 2015 3:00 pm

Date Received  
10/26/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	19.02	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 21:42	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	10	10	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	15	15	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	10	10	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.7	7.7	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	7.5	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	14	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.4	9.4	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	15	15	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.7	7.7	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.8	8.8	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	13	13	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.4	9.4	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	25	25	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	8.8	8.8	19.02	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 21:42	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	14	14	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.6	5.6	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD



### Sample Information

**Client Sample ID:** 7538 - INFL

**York Sample ID:** 15J0955-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0955

7538-MRNY

Vapor Extraction

October 23, 2015 3:00 pm

10/26/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	16	16	19.02	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 21:42	ALD
107-05-1	* 3-Chloropropene	ND		ug/m <sup>3</sup>	30	30	19.02	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 21:42	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.8	7.8	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
67-64-1	<b>Acetone</b>	<b>14</b>		ug/m <sup>3</sup>	9.0	9.0	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
107-13-1	* Acrylonitrile	ND		ug/m <sup>3</sup>	4.1	4.1	19.02	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 21:42	ALD
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.1	6.1	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	9.8	9.8	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	12	12	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	20	20	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.4	7.4	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.9	5.9	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.0	3.0	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.8	8.8	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.0	5.0	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.3	9.3	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.9	3.9	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>34</b>		ug/m <sup>3</sup>	7.5	7.5	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.6	8.6	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.5	6.5	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	15	15	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.4	9.4	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	14	14	19.02	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 21:42	ALD



### Sample Information

**Client Sample ID:** 7538 - INFL

**York Sample ID:** 15J0955-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

15J0955

7538-MRNY

Vapor Extraction

October 23, 2015 3:00 pm

10/26/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.3	8.3	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	20	20	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.4	9.4	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.8	7.8	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.8	6.8	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	13	13	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.8	7.8	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.7	6.7	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.3	8.3	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	17	17	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.4	9.4	19.02	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 21:42	ALD
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.3	3.3	19.02	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 21:42	ALD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.1	8.1	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
127-18-4	<b>Tetrachloroethylene</b>	<b>3200</b>		ug/m <sup>3</sup>	3.2	3.2	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	11	11	19.02	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 21:42	ALD
108-88-3	<b>Toluene</b>	<b>9.3</b>		ug/m <sup>3</sup>	7.2	7.2	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	7.5	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.6	8.6	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
79-01-6	<b>Trichloroethylene</b>	<b>92</b>		ug/m <sup>3</sup>	2.6	2.6	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	11	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.7	6.7	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.3	8.3	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD





### Sample Information

**Client Sample ID:** 7538 - INFL

**York Sample ID:** 15J0955-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0955

7538-MRNY

Vapor Extraction

October 23, 2015 3:00 pm

10/26/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.9	4.9	19.02	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 21:42	ALD
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: p-Bromofluorobenzene	97.4 %	72-118								

### Sample Information

**Client Sample ID:** 7538 - EFF

**York Sample ID:** 15J0955-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0955

7538-MRNY

Vapor Extraction

October 23, 2015 3:00 pm

10/26/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	14	14	20.16	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 22:30	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	14	14	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	15	15	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	8.2	8.2	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	8.0	8.0	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	15	15	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.9	9.9	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	15	15	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	8.2	8.2	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	9.3	9.3	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD



### Sample Information

**Client Sample ID:** 7538 - EFF

**York Sample ID:** 15J0955-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0955

7538-MRNY

Vapor Extraction

October 23, 2015 3:00 pm

10/26/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	14	14	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.9	9.9	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	26	26	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	9.3	9.3	20.16	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 22:30	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	15	15	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.9	5.9	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	17	17	20.16	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 22:30	ALD
107-05-1	* 3-Chloropropene	ND		ug/m <sup>3</sup>	32	32	20.16	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 22:30	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	8.3	8.3	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
67-64-1	Acetone	ND		ug/m <sup>3</sup>	9.6	9.6	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
107-13-1	* Acrylonitrile	ND		ug/m <sup>3</sup>	4.4	4.4	20.16	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 22:30	ALD
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.4	6.4	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	10	10	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	13	13	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	21	21	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.8	7.8	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	6.3	6.3	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.2	3.2	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	9.3	9.3	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.3	5.3	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD



### Sample Information

**Client Sample ID:** 7538 - EFF

**York Sample ID:** 15J0955-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0955

7538-MRNY

Vapor Extraction

October 23, 2015 3:00 pm

10/26/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.8	9.8	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	4.2	4.2	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	8.0	8.0	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	9.1	9.1	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.9	6.9	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	16	16	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	10	10	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	15	15	20.16	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 22:30	ALD
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.8	8.8	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	22	22	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.9	9.9	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	8.3	8.3	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	7.3	7.3	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	14	14	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	8.3	8.3	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	7.1	7.1	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.8	8.8	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	18	18	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.9	9.9	20.16	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 22:30	ALD
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.5	3.5	20.16	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 22:30	ALD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.6	8.6	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
127-18-4	<b>Tetrachloroethylene</b>	<b>2100</b>		ug/m <sup>3</sup>	3.4	3.4	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD



### Sample Information

**Client Sample ID:** 7538 - EFF

**York Sample ID:** 15J0955-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0955

7538-MRNY

Vapor Extraction

October 23, 2015 3:00 pm

10/26/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	12	12	20.16	EPA TO-15 Certifications:	10/31/2015 09:06	10/31/2015 22:30	ALD
108-88-3	Toluene	ND		ug/m <sup>3</sup>	7.6	7.6	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	8.0	8.0	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	9.1	9.1	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	2.7	2.7	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	11	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	7.1	7.1	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.8	8.8	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	5.2	5.2	20.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/31/2015 09:06	10/31/2015 22:30	ALD
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	96.7 %			72-118						



## Notes and Definitions

QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



16

# Field Chain-of-Custody Record - AIR

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 15J0955

<b>YOUR Information</b>	<b>Report To:</b>	<b>Invoice To:</b>	<b>YOUR Project ID</b>	<b>Turn-Around Time</b>	<b>Report Type/Deliverables</b>
Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	<u>7538-MRNY</u>	RUSH - Same Day <input type="checkbox"/>	Summary Report <input checked="" type="checkbox"/>
Address: <u>110 main st</u> <u>Port Washington, NY 11050</u>	Address: _____	Address: _____		RUSH - Next Day <input type="checkbox"/>	Summary w/ QA Summary _____
Phone No. <u>516-441-5200</u>	Phone No. _____	Phone No. _____	<b>Purchase Order No.</b>	RUSH - Two Day <input type="checkbox"/>	CT RCP Package _____
Contact Person: <u>Marina Shapiro</u>	Attention: <u>Marina Shapiro</u>	Attention: <u>Karen Friedman</u>		RUSH - Three Day <input type="checkbox"/>	NY ASP A Package _____
E-Mail Address: <u>marinas@actenviro.com</u>	E-Mail Address: <u>marinas@actenviro.com</u>	E-Mail Address: <u>Karen@actenviro.com</u>		RUSH - Four Day <input type="checkbox"/>	NY ASP B/CLP Pkg _____
Additional Notes: _____			Samples from: CT _____ NY <input checked="" type="checkbox"/> NJ _____	<b>Standard(5-7 Days)</b> <input checked="" type="checkbox"/>	NJDEP Reduced _____

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Marina Shapiro  
Samples Collected/Authorized By (Signature)

Mashe  
Name (printed)

**Air Matrix Codes**

- AI - INDOOR Ambient Air
- AO- OUTDOOR Amb. Air
- AE- Vapor Extraction Well/ Process Gas/Effluent
- AS- SOIL Vapor/Sub-Slab

**Detection Limits Required**

≤ 1 ug/m<sup>3</sup> \_\_\_\_\_

NYSDEC VI Limits \_\_\_\_\_

(VI = vapor intrusion)

NJDEP low level \_\_\_\_\_

Routine Survey \_\_\_\_\_

Other \_\_\_\_\_

**Special Instructions**

**Please enter the following Field Data**

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
<u>7538-INFL</u>	<u>10/23/15</u>	<u>AE</u>	<u>30</u>	<u>2</u>	<u>478</u>	<u>NA</u>	<u>TO15</u>	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag <input checked="" type="checkbox"/>
<u>7538-EFF</u>	<u>10/23/15</u>	<u>AE</u>	<u>30</u>	<u>2</u>	<u>18311</u>	<u>NA</u>	<u>TO15</u>	6 Liter canister _____ Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____
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								6 Liter canister _____ Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____

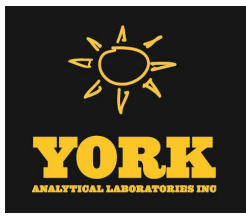
Comments \_\_\_\_\_

Samples Relinquished By [Signature] Date/Time 10/26/15 9:40 AM

Samples Relinquished By KBaku Date/Time 10-26-15

Samples Received By [Signature] Date/Time 10/26/15 9:40 AM

Samples Received in LAB by TC Mashe Date/Time 10/26/15 1837



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 12/03/2015  
**Client Project ID: 7538 MRNY**  
York Project (SDG) No.: 15K0798

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 12/03/2015  
Client Project ID: 7538 MRNY  
York Project (SDG) No.: 15K0798

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 23, 2015 and listed below. The project was identified as your project: **7538 MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
15K0798-01	7538-INF	Vapor Extraction	11/20/2015	11/23/2015
15K0798-02	7538-EFF	Vapor Extraction	11/20/2015	11/23/2015

## General Notes for York Project (SDG) No.: 15K0798

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 12/03/2015







### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 15K0798-01

York Project (SDG) No.  
15K0798

Client Project ID  
7538 MRNY

Matrix  
Vapor Extraction

Collection Date/Time  
November 20, 2015 3:00 pm

Date Received  
11/23/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications:	11/25/2015 06:59	11/26/2015 01:26	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	9.2	9.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	13	13	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	9.2	9.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	6.8	6.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	6.7	6.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	13	13	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	10	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	6.8	6.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	7.8	7.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	22	22	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	10	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	7.8	7.8	16.8	EPA TO-15 Certifications:	11/25/2015 06:59	11/26/2015 01:26	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	10	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.0	5.0	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 15K0798-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15K0798

7538 MRNY

Vapor Extraction

November 20, 2015 3:00 pm

11/23/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	14	14	16.8	EPA TO-15 Certifications:	11/25/2015 06:59	11/26/2015 01:26	ALD
107-05-1	* 3-Chloropropene	ND		ug/m <sup>3</sup>	26	26	16.8	EPA TO-15 Certifications:	11/25/2015 06:59	11/26/2015 01:26	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	6.9	6.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
67-64-1	Acetone	ND		ug/m <sup>3</sup>	8.0	8.0	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
107-13-1	* Acrylonitrile	ND		ug/m <sup>3</sup>	3.6	3.6	16.8	EPA TO-15 Certifications:	11/25/2015 06:59	11/26/2015 01:26	ALD
71-43-2	Benzene	ND		ug/m <sup>3</sup>	5.4	5.4	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	8.7	8.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	10	10	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	17	17	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	6.5	6.5	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.2	5.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	2.6	2.6	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	7.7	7.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	4.4	4.4	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	8.2	8.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.5	3.5	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>35</b>		ug/m <sup>3</sup>	6.7	6.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.6	7.6	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	5.8	5.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	13	13	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications:	11/25/2015 06:59	11/26/2015 01:26	ALD



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 15K0798-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15K0798

7538 MRNY

Vapor Extraction

November 20, 2015 3:00 pm

11/23/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	7.3	7.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	18	18	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	6.9	6.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.0	6.0	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	6.9	6.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	5.9	5.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	7.3	7.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	15	15	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications:	11/25/2015 06:59	11/26/2015 01:26	ALD
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	2.9	2.9	16.8	EPA TO-15 Certifications:	11/25/2015 06:59	11/26/2015 01:26	ALD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	7.2	7.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
127-18-4	<b>Tetrachloroethylene</b>	<b>780</b>		ug/m <sup>3</sup>	2.8	2.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	9.9	9.9	16.8	EPA TO-15 Certifications:	11/25/2015 06:59	11/26/2015 01:26	ALD
108-88-3	Toluene	ND		ug/m <sup>3</sup>	6.3	6.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	6.7	6.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.6	7.6	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
79-01-6	<b>Trichloroethylene</b>	<b>82</b>		ug/m <sup>3</sup>	2.3	2.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	9.4	9.4	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	5.9	5.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	7.3	7.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD



### Sample Information

**Client Sample ID:** 7538-INF **York Sample ID:** 15K0798-01  
**York Project (SDG) No.:** 15K0798 **Client Project ID:** 7538 MRNY **Matrix:** Vapor Extraction **Collection Date/Time:** November 20, 2015 3:00 pm **Date Received:** 11/23/2015

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.3	4.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/25/2015 06:59	11/26/2015 01:26	ALD
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: p-Bromofluorobenzene	98.1 %	72-118								

### Sample Information

**Client Sample ID:** 7538-EFF **York Sample ID:** 15K0798-02  
**York Project (SDG) No.:** 15K0798 **Client Project ID:** 7538 MRNY **Matrix:** Vapor Extraction **Collection Date/Time:** November 20, 2015 3:00 pm **Date Received:** 11/23/2015

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications:	11/27/2015 12:04	12/03/2015 15:37	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
75-35-4	<b>1,1-Dichloroethylene</b>	<b>0.91</b>		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.74	0.74	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>1.6</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 15K0798-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15K0798

7538 MRNY

Vapor Extraction

November 20, 2015 3:00 pm

11/23/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.70	0.70	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>0.49</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	1.3	1.3	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications:	11/27/2015 12:04	12/03/2015 15:37	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
78-93-3	<b>2-Butanone</b>	<b>2.1</b>		ug/m <sup>3</sup>	0.29	0.29	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	0.82	0.82	1	EPA TO-15 Certifications:	11/27/2015 12:04	12/03/2015 15:37	ALD
107-05-1	* 3-Chloropropene	ND		ug/m <sup>3</sup>	1.6	1.6	1	EPA TO-15 Certifications:	11/27/2015 12:04	12/03/2015 15:37	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
67-64-1	<b>Acetone</b>	<b>20</b>		ug/m <sup>3</sup>	0.48	0.48	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
107-13-1	* Acrylonitrile	ND		ug/m <sup>3</sup>	0.22	0.22	1	EPA TO-15 Certifications:	11/27/2015 12:04	12/03/2015 15:37	ALD
71-43-2	<b>Benzene</b>	<b>0.73</b>		ug/m <sup>3</sup>	0.32	0.32	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.52	0.52	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.62	0.62	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.0	1.0	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.39	0.39	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.31	0.31	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.16	0.16	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 15K0798-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15K0798

7538 MRNY

Vapor Extraction

November 20, 2015 3:00 pm

11/23/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.21	0.21	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>2.7</b>		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.34	0.34	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	0.80	0.80	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
75-71-8	<b>Dichlorodifluoromethane</b>	<b>11</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications:	11/27/2015 12:04	12/03/2015 15:37	ALD
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.1	1.1	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.36	0.36	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
75-09-2	<b>Methylene chloride</b>	<b>0.94</b>		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
110-54-3	<b>n-Hexane</b>	<b>0.81</b>		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>1.3</b>		ug/m <sup>3</sup>	0.87	0.87	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
622-96-8	* <b>p-Ethyltoluene</b>	<b>1.2</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications:	11/27/2015 12:04	12/03/2015 15:37	ALD
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications:	11/27/2015 12:04	12/03/2015 15:37	ALD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
127-18-4	<b>Tetrachloroethylene</b>	<b>3.7</b>		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 15K0798-02

York Project (SDG) No.

Client Project ID

Matrix

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15K0798

7538 MRNY

Vapor Extraction

November 20, 2015 3:00 pm

11/23/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
109-99-9	* Tetrahydrofuran	0.83		ug/m <sup>3</sup>	0.59	0.59	1	EPA TO-15 Certifications:	11/27/2015 12:04	12/03/2015 15:37	ALD
108-88-3	Toluene	0.79		ug/m <sup>3</sup>	0.38	0.38	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.13	0.13	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	29		ug/m <sup>3</sup>	0.56	0.56	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.44	0.44	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	11/27/2015 12:04	12/03/2015 15:37	ALD
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: p-Bromofluorobenzene	96.5 %	72-118								



## Notes and Definitions

QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.





**YORK**  
ANALYTICAL LABORATORIES, INC.

# Field Chain-of-Custody Record - AIR

Page      of       
*0798*  
York Project No. 1560978

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

<b>YOUR Information</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project ID</b>		<b>Turn-Around Time</b>		<b>Report Type/Deliverables</b>	
Company: <u>Advanced Cleanup Tech</u>		Company: <u>ACT</u>		Company: <u>ACT</u>		<u>7538-MRWY</u>		RUSH - Same Day <input type="checkbox"/>		Summary Report <input checked="" type="checkbox"/>	
Address: <u>110 Main St.</u>		Address: <u>    </u>		Address: <u>    </u>		<u>    </u>		RUSH - Next Day <input type="checkbox"/>		Summary w/ QA Summary <u>    </u>	
Address: <u>Port Washington, NY</u>		Address: <u>    </u>		Address: <u>    </u>		<u>    </u>		RUSH - Two Day <input type="checkbox"/>		CT RCP Package <u>    </u>	
Phone No. <u>516-441-5800</u>		Phone No. <u>Same</u>		Phone No. <u>Same</u>		<u>    </u>		RUSH - Three Day <input type="checkbox"/>		NY ASP A Package <u>    </u>	
Contact Person: <u>Tim Young</u>		Attention: <u>Marcia Shapiro</u>		Attention: <u>Karen Friedman</u>		<b>Purchase Order No.</b>		RUSH - Four Day <input type="checkbox"/>		NY ASP B/CLP Pkg <u>    </u>	
E-Mail Address: <u>timy@actenviro.com</u>		E-Mail Address: <u>MarciaS@actenviro.com</u>		E-Mail Address: <u>KarenF@actenviro.com</u>		<u>    </u>		Standard(5-7 Days) <input checked="" type="checkbox"/>		NJDEP Reduced <u>    </u>	
<u>    </u>		<u>    </u>		<u>    </u>		Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>		<u>    </u>		Electronic Deliverables:	
<u>    </u>		<u>    </u>		<u>    </u>		<u>    </u>		<u>    </u>		EDD (Specify Type) <u>    </u>	
<u>    </u>		<u>    </u>		<u>    </u>		<u>    </u>		<u>    </u>		Standard Excel <u>    </u>	
<u>    </u>		<u>    </u>		<u>    </u>		<u>    </u>		<u>    </u>		Regulatory Comparison Excel <u>    </u>	

**Print Clearly and Legibly. All Information must be complete.**  
Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Additional Notes:

Detection Limits Required

≤ 1 ug/m<sup>3</sup>

NYSDEC VI Limits

(VI=vapor intrusion)

NJDEP low level

Routine Survey

Other

### Special Instructions

### Air Matrix Codes

- AI - INDOOR Ambient Air
- AO- OUTDOOR Amb. Air
- AE- Vapor Extraction Well/  
Process Gas/Effluent
- AS- SOIL Vapor/Sub-Slab

Samples Collected/Authorized By (Signature)

*Tim Young*  
Name (printed)

### Please enter the following Field Data

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
7538- INF	11/20	AE	-30	-4	18306	N/A	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
7538- EFF	11/20	AE	-30	-4	18307	N/A	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
								6 Liter canister <u>    </u> Tedlar Bag
								6 Liter canister <u>    </u> Tedlar Bag
								6 Liter canister <u>    </u> Tedlar Bag
								6 Liter canister <u>    </u> Tedlar Bag
								6 Liter canister <u>    </u> Tedlar Bag
								6 Liter canister <u>    </u> Tedlar Bag
								6 Liter canister <u>    </u> Tedlar Bag
								6 Liter canister <u>    </u> Tedlar Bag
								6 Liter canister <u>    </u> Tedlar Bag

Page 11 of 11

### Comments

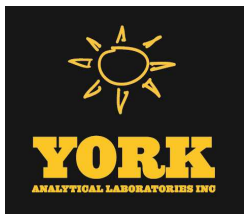
NO FLOW REGULATORS

Samples Relinquished By [Signature] Date/Time 11/23/15 10:50 AM

Samples Relinquished By K. Bada Date/Time 11/23/15

Samples Received By K. Park Date/Time 11-23-15 10:50 AM

Samples Received in LAB by R. Price Date/Time 11-23-15 1829 @ 4.0c



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 12/29/2015  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 15L0817

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 12/29/2015  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 15L0817

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 21, 2015 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
15L0817-01	7538-INF	Vapor Extraction	12/18/2015	12/21/2015
15L0817-02	7538-EFF	Vapor Extraction	12/18/2015	12/21/2015

## General Notes for York Project (SDG) No.: 15L0817

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 12/29/2015





### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 15L0817-01

York Project (SDG) No.  
15L0817

Client Project ID  
7538-MRNY

Matrix  
Vapor Extraction

Collection Date/Time  
December 18, 2015 3:00 pm

Date Received  
12/21/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	2.5	2.5	3.666	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 06:44	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	2.0	2.0	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	2.5	2.5	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	2.8	2.8	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	2.0	2.0	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	1.5	1.5	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	1.5	1.5	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	2.7	2.7	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	1.8	1.8	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	2.8	2.8	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	2.2	2.2	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	1.5	1.5	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	1.7	1.7	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	2.6	2.6	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	1.8	1.8	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	4.8	4.8	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	2.2	2.2	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	1.7	1.7	3.666	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 06:44	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	2.2	2.2	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	2.6	2.6	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	1.1	1.1	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 15L0817-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0817

7538-MRNY

Vapor Extraction

December 18, 2015 3:00 pm

12/21/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	3.0	3.0	3.666	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 06:44	ALD
107-05-1	* 3-Chloropropene	ND		ug/m <sup>3</sup>	5.7	5.7	3.666	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 06:44	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	1.5	1.5	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
67-64-1	<b>Acetone</b>	<b>3.3</b>		ug/m <sup>3</sup>	1.7	1.7	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
107-13-1	* Acrylonitrile	ND		ug/m <sup>3</sup>	0.80	0.80	3.666	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 06:44	ALD
71-43-2	Benzene	ND		ug/m <sup>3</sup>	1.2	1.2	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	1.9	1.9	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	2.3	2.3	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	3.8	3.8	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	1.4	1.4	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	1.1	1.1	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.58	0.58	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	1.7	1.7	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.97	0.97	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	1.8	1.8	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.76	0.76	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>32</b>		ug/m <sup>3</sup>	1.5	1.5	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	1.7	1.7	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	1.3	1.3	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	2.9	2.9	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.9</b>		ug/m <sup>3</sup>	1.8	1.8	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	2.6	2.6	3.666	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 06:44	ALD



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 15L0817-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

15L0817

7538-MRNY

Vapor Extraction

December 18, 2015 3:00 pm

12/21/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	1.6	1.6	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	3.9	3.9	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	1.8	1.8	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	1.5	1.5	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	1.3	1.3	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	2.5	2.5	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	1.5	1.5	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	1.3	1.3	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	1.6	1.6	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	3.2	3.2	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	1.8	1.8	3.666	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 06:44	ALD
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.63	0.63	3.666	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 06:44	ALD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	1.6	1.6	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
127-18-4	<b>Tetrachloroethylene</b>	<b>610</b>		ug/m <sup>3</sup>	0.62	0.62	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	2.2	2.2	3.666	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 06:44	ALD
108-88-3	Toluene	ND		ug/m <sup>3</sup>	1.4	1.4	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	1.5	1.5	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	1.7	1.7	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
79-01-6	<b>Trichloroethylene</b>	<b>52</b>		ug/m <sup>3</sup>	0.49	0.49	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	2.1	2.1	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	1.3	1.3	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	1.6	1.6	3.666	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 06:44	ALD





### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 15L0817-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0817

7538-MRNY

Vapor Extraction

December 18, 2015 3:00 pm

12/21/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.70	0.70	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	1.3	1.3	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 07:45	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
78-93-3	<b>2-Butanone</b>	<b>1.4</b>		ug/m <sup>3</sup>	0.29	0.29	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	0.82	0.82	1	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 07:45	ALD
107-05-1	* 3-Chloropropene	ND		ug/m <sup>3</sup>	1.6	1.6	1	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 07:45	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
67-64-1	<b>Acetone</b>	<b>25</b>		ug/m <sup>3</sup>	0.48	0.48	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
107-13-1	* Acrylonitrile	ND		ug/m <sup>3</sup>	0.22	0.22	1	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 07:45	ALD
71-43-2	<b>Benzene</b>	<b>0.67</b>		ug/m <sup>3</sup>	0.32	0.32	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.52	0.52	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.62	0.62	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.0	1.0	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.39	0.39	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.31	0.31	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.16	0.16	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD





### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 15L0817-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0817

7538-MRNY

Vapor Extraction

December 18, 2015 3:00 pm

12/21/2015

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.21	0.21	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>3.9</b>		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.34	0.34	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	0.80	0.80	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.4</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 07:45	ALD
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.1	1.1	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
67-63-0	<b>Isopropanol</b>	<b>4.8</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.36	0.36	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>0.91</b>		ug/m <sup>3</sup>	0.87	0.87	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
622-96-8	* <b>p-Ethyltoluene</b>	<b>0.93</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 07:45	ALD
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications:	12/28/2015 09:42	12/29/2015 07:45	ALD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD
127-18-4	<b>Tetrachloroethylene</b>	<b>2.1</b>		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 15L0817-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0817

7538-MRNY

Vapor Extraction

December 18, 2015 3:00 pm

12/21/2015

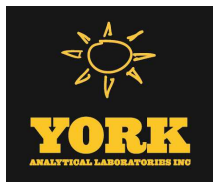
**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
109-99-9	* Tetrahydrofuran	0.62		ug/m <sup>3</sup>	0.59	0.59	1	EPA TO-15	12/28/2015 09:42	12/29/2015 07:45	ALD	
108-88-3	Toluene	0.53		ug/m <sup>3</sup>	0.38	0.38	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD	
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD	
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD	
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.13	0.13	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD	
75-69-4	Trichlorofluoromethane (Freon 11)	0.90		ug/m <sup>3</sup>	0.56	0.56	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD	
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD	
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.44	0.44	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD	
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	12/28/2015 09:42	12/29/2015 07:45	ALD	
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>							
460-00-4	Surrogate: p-Bromofluorobenzene	95.7 %			72-118							



## Notes and Definitions

QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



**YORK**  
ANALYTICAL LABORATORIES, INC.

# Field Chain-of-Custody Record - AIR

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 15L0817

<b>YOUR INFORMATION</b> Company: <u>ACT</u> Address: <u>110 Clark St. Suite 103, Port Washington, NY 11050</u> Phone No. <u>516-441-5800</u> Contact Person: <u>Marina Shapiro</u> E-Mail Address: <u>marinas@actenvi.com</u>	<b>Report To:</b> Company: <u>ACT</u> Address: _____ Phone No. _____ Attention: <u>Marina Shapiro</u> E-Mail Address: <u>marinas@actenvi.com</u>	<b>Invoice To:</b> Company: <u>ACT</u> Address: _____ Phone No. _____ Attention: <u>Karen Friedman</u> E-Mail Address: <u>karenf@actenvi.com</u>	<b>YOUR PROJECT ID</b> <u>7538-MP-NY</u> Purchase Order No. _____	<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard (5-7 Days) <input checked="" type="checkbox"/>	<b>Report Type/Deliverables</b> Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B/CLP Pkg <input type="checkbox"/> NIDEP Reduced <input type="checkbox"/> Electronic Deliverables: <input type="checkbox"/> EDD (Specify Type) <input type="checkbox"/> Standard Excel <input type="checkbox"/> Regulatory Comparison Excel <input type="checkbox"/>
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**Additional Notes:**  
*Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.*

Madhe  
Samples Collected/Authorized By (Signature)  
Marina Shapiro  
Name (printed)

**Air Matrix Codes**  
AI- INDOOR Ambient Air  
AO- OUTDOOR Amb. Air  
AE- Vapor Extraction Well/  
Process Gas/Effluent  
AS- SOIL Vapor/Sub-Slab

**Special Instructions**

Please enter the following Field Data

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont-ID	ANALYSES REQUESTED	Sampling Media
7538-IMF	12/18/15	AE	-30	-2	18298	NA	T015	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
7538-EFF	12/18/15	AE	-30	-2	15522	NA	T015	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag

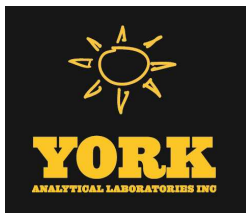
**Comments**

Samples Relinquished By: [Signature] Date/Time: 12/21/15 9:50 AM

Samples Relinquished By: [Signature] Date/Time: 12/21/15 12:21 PM

Samples Received By: [Signature] Date/Time: 12/21/15 9:50 AM

Samples Received in LAB by: [Signature] Date/Time: 12/21/15 12:21 PM



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 12/30/2015  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 15L0819

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 12/30/2015  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 15L0819

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

---

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 21, 2015 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
15L0819-01	MW-1S	Water	12/18/2015	12/21/2015
15L0819-02	MW-1D	Water	12/18/2015	12/21/2015
15L0819-03	MW-2S	Water	12/18/2015	12/21/2015
15L0819-04	MW-2D	Water	12/18/2015	12/21/2015
15L0819-05	MW-3D	Water	12/18/2015	12/21/2015

## **General Notes for York Project (SDG) No.: 15L0819**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 12/30/2015





### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 15L0819-01

<u>York Project (SDG) No.</u> 15L0819	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 18, 2015 4:05 pm	<u>Date Received</u> 12/21/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK





## Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 15L0819-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0819

7538-MRNY

Water

December 18, 2015 4:05 pm

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
107-02-8	Acrolein	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>160</b>		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/30/2015 15:17	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 15L0819-01

York Project (SDG) No.

Client Project ID

Matrix

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15L0819

7538-MRNY

Water

December 18, 2015 4:05 pm

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	12/28/2015 16:03	12/28/2015 19:47	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	12/28/2015 16:03	12/28/2015 19:47	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
127-18-4	<b>Tetrachloroethylene</b>	<b>52</b>		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/30/2015 15:17	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>2.7</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
79-01-6	<b>Trichloroethylene</b>	<b>40</b>		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/30/2015 15:17	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 15L0819-01

<u>York Project (SDG) No.</u> 15L0819	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 18, 2015 4:05 pm	<u>Date Received</u> 12/21/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	1.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	12/28/2015 16:03	12/28/2015 19:47	BK
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	96.0 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	98.0 %			79-122						
2037-26-5	Surrogate: Toluene-d8	104 %			81-117						

### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 15L0819-02

<u>York Project (SDG) No.</u> 15L0819	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 18, 2015 2:55 pm	<u>Date Received</u> 12/21/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
75-35-4	<b>1,1-Dichloroethylene</b>	<b>6.6</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 15L0819-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0819

7538-MRNY

Water

December 18, 2015 2:55 pm

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
107-02-8	Acrolein	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 15L0819-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0819

7538-MRNY

Water

December 18, 2015 2:55 pm

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	0.49	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>740</b>		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 15:44	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	12/28/2015 16:03	12/28/2015 20:30	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	12/28/2015 16:03	12/28/2015 20:30	BK



### Sample Information

Client Sample ID: MW-1D

York Sample ID: 15L0819-02

York Project (SDG) No.

Client Project ID

Matrix

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15L0819

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Water

December 18, 2015 2:55 pm

12/21/2015

### Volatile Organics, NJDEP/TCL/Part 375 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
127-18-4	<b>Tetrachloroethylene</b>	<b>490</b>		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/30/2015 15:44	SS
108-88-3	<b>Toluene</b>	<b>0.71</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>62</b>	E	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
79-01-6	<b>Trichloroethylene</b>	<b>3300</b>		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/30/2015 15:44	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
75-01-4	<b>Vinyl Chloride</b>	<b>1.4</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	12/28/2015 16:03	12/28/2015 20:30	BK
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	93.0 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	89.3 %	79-122								
2037-26-5	Surrogate: Toluene-d8	104 %	81-117								

### Sample Information

Client Sample ID: MW-2S

York Sample ID: 15L0819-03

York Project (SDG) No.

Client Project ID

Matrix

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15L0819

7538-MRNY

Water

December 18, 2015 1:35 pm

12/21/2015

### Volatile Organics, NJDEP/TCL/Part 375 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 15L0819-03

York Project (SDG) No.

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7538-MRNY

Water

December 18, 2015 1:35 pm

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 15L0819-03

York Project (SDG) No.

Client Project ID

Matrix

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15L0819

7538-MRNY

Water

December 18, 2015 1:35 pm

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
75-15-0	<b>Carbon disulfide</b>	<b>0.48</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS





### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 15L0819-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0819

7538-MRNY

Water

December 18, 2015 1:35 pm

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	12/30/2015 08:14	12/30/2015 13:50	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	12/30/2015 08:14	12/30/2015 13:50	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>0.45</b>	<b>J</b>	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 15L0819-03

<u>York Project (SDG) No.</u> 15L0819	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 18, 2015 1:35 pm	<u>Date Received</u> 12/21/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	12/30/2015 08:14	12/30/2015 13:50	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.9 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	60.6 %	S-08		79-122						
2037-26-5	Surrogate: Toluene-d8	88.0 %			81-117						

### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 15L0819-04

<u>York Project (SDG) No.</u> 15L0819	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 18, 2015 12:35 pm	<u>Date Received</u> 12/21/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>19</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
75-34-3	<b>1,1-Dichloroethane</b>	<b>4.8</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
75-35-4	<b>1,1-Dichloroethylene</b>	<b>0.86</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS



## Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 15L0819-04

York Project (SDG) No.

Client Project ID

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7538-MRNY

Water

December 18, 2015 12:35 pm

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
75-15-0	<b>Carbon disulfide</b>	<b>0.45</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 15L0819-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0819

7538-MRNY

Water

December 18, 2015 12:35 pm

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>460</b>		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 16:37	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	12/30/2015 08:14	12/30/2015 14:22	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	12/30/2015 08:14	12/30/2015 14:22	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 15L0819-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0819

7538-MRNY

Water

December 18, 2015 12:35 pm

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
79-01-6	<b>Trichloroethylene</b>	<b>3.8</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	12/30/2015 08:14	12/30/2015 14:22	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	95.8 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	60.7 %	S-08			79-122					
2037-26-5	Surrogate: Toluene-d8	88.9 %			81-117						

### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 15L0819-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0819

7538-MRNY

Water

December 18, 2015 11:10 am

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 15L0819-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15L0819

7538-MRNY

Water

December 18, 2015 11:10 am

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 15L0819-05

York Project (SDG) No.

Client Project ID

Matrix

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15L0819

7538-MRNY

Water

December 18, 2015 11:10 am

12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
107-02-8	Acrolein	0.79		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
156-59-2	cis-1,2-Dichloroethylene	5.3		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 15L0819-05

<u>York Project (SDG) No.</u> 15L0819	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 18, 2015 11:10 am	<u>Date Received</u> 12/21/2015
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

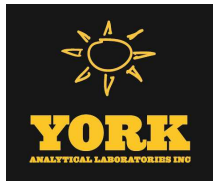
**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	12/30/2015 08:14	12/30/2015 14:49	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	12/30/2015 08:14	12/30/2015 14:49	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	12/30/2015 08:14	12/30/2015 14:49	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.9 %	69-130





### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 15L0819-05

York Project (SDG) No.  
15L0819

Client Project ID  
7538-MRNY

Matrix  
Water

Collection Date/Time  
December 18, 2015 11:10 am

Date Received  
12/21/2015

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	61.8 %	S-08		79-122						
2037-26-5	Surrogate: Toluene- <i>d</i> 8	87.9 %			81-117						



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
15L0819-01	MW-1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15L0819-02	MW-1D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15L0819-03	MW-2S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15L0819-04	MW-2D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15L0819-05	MW-3D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Notes and Definitions

S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.



Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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FAX (203) 357-0166

# Field Chain-of-Custody Record

Page      of     

York Project No. 1520819

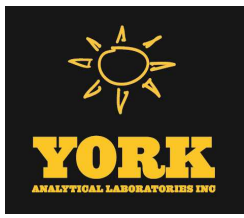
NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

<b>YOUR INFORMATION</b> Company: <u>Advanced Cleanup Tech</u> Address: <u>110 Main St.</u> Phone No. <u>516-441-5800</u> Contact Person: <u>Tim Young</u> E-Mail Address: <u>timy@actenv.com</u>		<b>Report To:</b> Company: <u>ACT</u> Address: _____ Phone No. _____ Attention: <u>Manne Shep</u> E-Mail Address: <u>manne@actenv.com</u>		<b>Invoice To:</b> Company: <u>ACT</u> Address: _____ Phone No. _____ Attention: <u>Karen Freeman</u> E-Mail Address: <u>Karf@actenv.com</u>		<b>YOUR PROJECT ID</b> <u>7538-MAN</u> <b>Purchase Order No.</b> _____		<b>Turn-Around Time</b> <input type="checkbox"/> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <b>Standard (5-7 Days)</b> <input checked="" type="checkbox"/>		<b>Report Type</b> <input checked="" type="checkbox"/> Summary Report <input type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CTRCP DOA/DUE Pkg <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NIDEP Red. Deliv. <u>Electronic Data Deliverables (EDD)</u> <input type="checkbox"/> Simple Excel <input type="checkbox"/> NYSEDEC EQuIS <input type="checkbox"/> EQuIS (std) <input type="checkbox"/> EZ-EDD (EQuIS) <input type="checkbox"/> NIDEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other <input type="checkbox"/> York Regulatory Comparison <input type="checkbox"/> Excel Spreadsheet Compare to the following Regs. (please fill in):	
<b>Volatiles</b> 8260 full 624 STARS list BTEX MTBE TCL list TAGM list CT RCP list Atom. only Halog. only App. IX list 802.1B list		<b>Semi-Vols. Pest/PCB/Herb</b> 8082PCB 808 Pest 815 Herb CT RCP App. IX Site Spec. SFLP or TCLP TCLP Pest NIDEP list App. IX TCLP BNA SFLP or TCLP 608 PCB		<b>Metals</b> RCRA8 PPI3 list TAL CT15 list TAGM list NIDEP list Total Dissolved SFLP or TCLP Indus. Metals LIST Below		<b>Misc. Org.</b> TPH GRO TPH DRO CT ETPH NY 310-13 TPH 1664 Air TO14A Air TO15 Air STARS Air VPH Air TICs Methane Helium		<b>Fuel Lists</b> Pri. Poll. TCL Ograns TAL MetCN Full TCLP Full App. IX Part 360-Resins Part 360-Resins Part 360-Resins Part 360-Resins Part 360-Resins NY CDF Sewer NYSEDEC Sewer TAGM		<b>Misc.</b> Corrosivity Reactivity Ignitability Flash Point Sieve Anal. Heterotrophs TOX BTU/lb. Aquatic Tox. TOC Asbestos Silica	

**Print Clearly and Legibly. All information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Samples Collected/Authorized By (Signature)  
  
 Tim Young  
 Name (printed)

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-4S	12/18 1605	GW	VOC's	3 VOA's
MW-40	" 1455			"
MW-2S	" 1335			"
MW-2D	" 1235			"
MW-3D	" 1110			"
<b>Comments</b> Preservation: <input type="checkbox"/> 4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other Special Instructions: <input type="checkbox"/> Field Filled <input type="checkbox"/> Lab to Filter Samples Relinquished By: <u>Manne Shep</u> Date/Time: <u>12/21/15 950 AM</u> Samples Relinquished By: <u>Karen Freeman</u> Date/Time: <u>12-21-15 1803</u> Samples Received By: <u>Karen Freeman</u> Date/Time: <u>12/21/15 950 AM</u> Samples Received in LAB by: _____ Date/Time: _____ Temperature on Receipt: <u>4.4 °C</u>				



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 03/02/2016  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 16B0871

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 03/02/2016  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 16B0871

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 26, 2016 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16B0871-01	7538-INF	Vapor Extraction	02/25/2016	02/26/2016
16B0871-02	7538-EFF	Vapor Extraction	02/25/2016	02/26/2016

## General Notes for York Project (SDG) No.: 16B0871

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 03/02/2016





### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16B0871-01

York Project (SDG) No.  
16B0871

Client Project ID  
7538-MRNY

Matrix  
Vapor Extraction

Collection Date/Time  
February 25, 2016 3:00 pm

Date Received  
02/26/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.2	1.2	1.794	EPA TO-15 Certifications:	03/01/2016 19:48	03/01/2016 19:48	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.98	0.98	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.2	1.2	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.4	1.4	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.98	0.98	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.73	0.73	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.71	0.71	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.3	1.3	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.88	0.88	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.4	1.4	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.1	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.73	0.73	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.83	0.83	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.3	1.3	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.88	0.88	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	2.3	2.3	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.1	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.83	0.83	1.794	EPA TO-15 Certifications:	03/01/2016 19:48	03/01/2016 19:48	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.1	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.3	1.3	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	0.53	0.53	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS





### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16B0871-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16B0871

7538-MRNY

Vapor Extraction

February 25, 2016 3:00 pm

02/26/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.5	1.5	1.794	EPA TO-15 Certifications:	03/01/2016 19:48	03/01/2016 19:48	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.8	2.8	1.794	EPA TO-15 Certifications: NELAC-NY10854	03/01/2016 19:48	03/01/2016 19:48	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.73	0.73	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
67-64-1	<b>Acetone</b>	<b>2.6</b>		ug/m <sup>3</sup>	0.85	0.85	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.39	0.39	1.794	EPA TO-15 Certifications: NELAC-NY10854	03/01/2016 19:48	03/01/2016 19:48	LDS
71-43-2	<b>Benzene</b>	<b>0.69</b>		ug/m <sup>3</sup>	0.57	0.57	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.93	0.93	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.1	1.1	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.9	1.9	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.70	0.70	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.56	0.56	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.28	0.28	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.83	0.83	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.47	0.47	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.88	0.88	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.37	0.37	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>50</b>		ug/m <sup>3</sup>	0.71	0.71	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.81	0.81	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.62	0.62	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.4	1.4	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.0</b>		ug/m <sup>3</sup>	0.89	0.89	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	1.3	1.3	1.794	EPA TO-15 Certifications:	03/01/2016 19:48	03/01/2016 19:48	LDS



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16B0871-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16B0871

7538-MRNY

Vapor Extraction

February 25, 2016 3:00 pm

02/26/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	0.78	0.78	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.9	1.9	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.88	0.88	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.73	0.73	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.65	0.65	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
75-09-2	<b>Methylene chloride</b>	<b>2.4</b>		ug/m <sup>3</sup>	1.2	1.2	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.74	0.74	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	0.63	0.63	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	0.78	0.78	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	1.6	1.6	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	0.88	0.88	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.31	0.31	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.76	0.76	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>210</b>		ug/m <sup>3</sup>	0.30	0.30	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	1.1	1.1	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	0.68	0.68	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.71	0.71	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.81	0.81	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
79-01-6	<b>Trichloroethylene</b>	<b>66</b>		ug/m <sup>3</sup>	0.24	0.24	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>1.3</b>		ug/m <sup>3</sup>	1.0	1.0	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.63	0.63	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.78	0.78	1.794	EPA TO-15	Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS



### Sample Information

<b>Client Sample ID:</b> 7538-INF					<b>York Sample ID:</b> 16B0871-01
<u>York Project (SDG) No.</u> 16B0871	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Vapor Extraction	<u>Collection Date/Time</u> February 25, 2016 3:00 pm	<u>Date Received</u> 02/26/2016	

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	3.1		ug/m <sup>3</sup>	0.46	0.46	1.794	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 19:48	03/01/2016 19:48	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
460-00-4	Surrogate: p-Bromofluorobenzene	94.1 %				72-118					

### Sample Information

<b>Client Sample ID:</b> 7538-EFF					<b>York Sample ID:</b> 16B0871-02
<u>York Project (SDG) No.</u> 16B0871	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Vapor Extraction	<u>Collection Date/Time</u> February 25, 2016 3:00 pm	<u>Date Received</u> 02/26/2016	

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.2	1.2	1.68	EPA TO-15 Certifications:	03/01/2016 20:43	03/01/2016 20:43	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.92	0.92	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.2	1.2	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.3	1.3	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.92	0.92	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.68	0.68	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.67	0.67	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.2	1.2	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>0.83</b>		ug/m <sup>3</sup>	0.83	0.83	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.3	1.3	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.0	1.0	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.68	0.68	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.78	0.78	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16B0871-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16B0871

7538-MRNY

Vapor Extraction

February 25, 2016 3:00 pm

02/26/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.2	1.2	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.83	0.83	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	2.2	2.2	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.0	1.0	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.78	0.78	1.68	EPA TO-15 Certifications:	03/01/2016 20:43	03/01/2016 20:43	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.0	1.0	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.2	1.2	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
78-93-3	<b>2-Butanone</b>	<b>4.4</b>		ug/m <sup>3</sup>	0.50	0.50	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.4	1.4	1.68	EPA TO-15 Certifications:	03/01/2016 20:43	03/01/2016 20:43	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.6	2.6	1.68	EPA TO-15 Certifications: NELAC-NY10854	03/01/2016 20:43	03/01/2016 20:43	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.69	0.69	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
67-64-1	<b>Acetone</b>	<b>20</b>		ug/m <sup>3</sup>	0.80	0.80	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.36	0.36	1.68	EPA TO-15 Certifications: NELAC-NY10854	03/01/2016 20:43	03/01/2016 20:43	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	0.54	0.54	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.87	0.87	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.0	1.0	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.7	1.7	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.65	0.65	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.52	0.52	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.26	0.26	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.77	0.77	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.44	0.44	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16B0871-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16B0871

7538-MRNY

Vapor Extraction

February 25, 2016 3:00 pm

02/26/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.82	0.82	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.35	0.35	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>2.2</b>		ug/m <sup>3</sup>	0.67	0.67	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.76	0.76	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.58	0.58	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.3	1.3	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.8</b>		ug/m <sup>3</sup>	0.83	0.83	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	1.2	1.2	1.68	EPA TO-15 Certifications:	03/01/2016 20:43	03/01/2016 20:43	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>2.0</b>		ug/m <sup>3</sup>	0.73	0.73	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.8	1.8	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.83	0.83	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.69	0.69	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.60	0.60	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
75-09-2	<b>Methylene chloride</b>	<b>3.3</b>		ug/m <sup>3</sup>	1.2	1.2	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.69	0.69	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	0.59	0.59	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
95-47-6	<b>o-Xylene</b>	<b>2.5</b>		ug/m <sup>3</sup>	0.73	0.73	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>9.0</b>		ug/m <sup>3</sup>	1.5	1.5	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
622-96-8	* <b>p-Ethyltoluene</b>	<b>1.2</b>		ug/m <sup>3</sup>	0.83	0.83	1.68	EPA TO-15 Certifications:	03/01/2016 20:43	03/01/2016 20:43	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.29	0.29	1.68	EPA TO-15 Certifications:	03/01/2016 20:43	03/01/2016 20:43	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.72	0.72	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>1.0</b>		ug/m <sup>3</sup>	0.28	0.28	1.68	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	03/01/2016 20:43	03/01/2016 20:43	LDS
109-99-9	* <b>Tetrahydrofuran</b>	<b>2.1</b>		ug/m <sup>3</sup>	0.99	0.99	1.68	EPA TO-15 Certifications:	03/01/2016 20:43	03/01/2016 20:43	LDS



**Sample Information**

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16B0871-02

York Project (SDG) No.

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16B0871

7538-MRNY

Vapor Extraction

February 25, 2016 3:00 pm

02/26/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
108-88-3	<b>Toluene</b>	<b>4.4</b>		ug/m <sup>3</sup>	0.63	0.63	1.68	EPA TO-15	03/01/2016 20:43	03/01/2016 20:43	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.67	0.67	1.68	EPA TO-15	03/01/2016 20:43	03/01/2016 20:43	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.76	0.76	1.68	EPA TO-15	03/01/2016 20:43	03/01/2016 20:43	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
79-01-6	<b>Trichloroethylene</b>	<b>0.90</b>		ug/m <sup>3</sup>	0.23	0.23	1.68	EPA TO-15	03/01/2016 20:43	03/01/2016 20:43	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	0.94	0.94	1.68	EPA TO-15	03/01/2016 20:43	03/01/2016 20:43	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.59	0.59	1.68	EPA TO-15	03/01/2016 20:43	03/01/2016 20:43	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.73	0.73	1.68	EPA TO-15	03/01/2016 20:43	03/01/2016 20:43	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.43	0.43	1.68	EPA TO-15	03/01/2016 20:43	03/01/2016 20:43	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>							
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	93.7 %			72-118							



## Notes and Definitions

- QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
- CCV-A The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

- 
- \* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

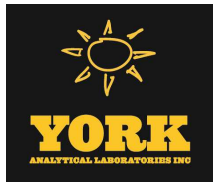
If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.







**YORK**  
ANALYZERS & LABOR SERVICES INC.

# Field Chain-of-Custody Record - AIR

Page      of       
York Project No. 16B0871

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

YOUR INFORMATION		Report To:		Invoice To:		YOUR PROJECT ID		Turn-Around Time		Report Type/Deliverables	
Company: <u>Advanced Cleanup Rec</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	<u>7538-MRNY</u>		RUSH - Same Day <input type="checkbox"/>	Summary Report <input checked="" type="checkbox"/>		
Address: <u>110 Mari St.</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>	Address: <u>same</u>	<u>Purchase Order No.</u>		RUSH - Next Day <input type="checkbox"/>	Summary w/ QA Summary		
Phone No. <u>Port Washington, NY</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	Phone No. <u>same</u>	<u>Attention: Karen Friedman</u>		RUSH - Two Day <input type="checkbox"/>	CT RCP Package		
Contact Person: <u>Tim Young</u>	Attention: <u>Maria Shapiro</u>	Attention: <u>Maria Shapiro</u>	Attention: <u>Karen Friedman</u>	Attention: <u>Karen Friedman</u>	Attention: <u>Karen Friedman</u>	<u>E-Mail Address: karen.friedman@actenv.com</u>		RUSH - Three Day <input type="checkbox"/>	NY ASP A Package		
E-Mail Address: <u>timy@actenv.com</u>	E-Mail Address: <u>marinas@actenv.com</u>	E-Mail Address: <u>marinas@actenv.com</u>	E-Mail Address: <u>actenv.com</u>	E-Mail Address: <u>actenv.com</u>	E-Mail Address: <u>actenv.com</u>	<u>Samples from: CT NY X NJ</u>		RUSH - Four Day <input type="checkbox"/>	NY ASP B/CLP Pkg		
						<u>Standard(5-7 Days) X</u>		Electronic Deliverables: EDD (Specify Type) Standard Excel Regulatory Comparison Excel			

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

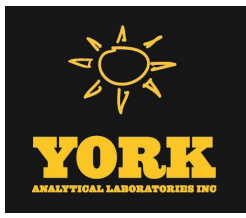
Air Matrix Codes		Additional Notes:	
AI - INDOOR Ambient Air		Detection Limits Required	
AO - OUTDOOR Amb. Air		<u>&lt; 1 ug/m<sup>3</sup></u>	
AE - Vapor Extraction Well/Process Gas/Effluent		NYSDEC VI Limits	
AS - SOIL Vapor/Sub-Slab		NJDEP low level	
		Routine Survey	
		Other	

**Please enter the following Field Data**

Canister Vacuum Before Sampling (in. Hg.)	Canister Vacuum After Sampling (in. Hg.)	Canister ID	Flow Cont. ID
<u>-30</u>	<u>-4</u>	<u>17348</u>	<u>N/A</u>
<u>-30</u>	<u>-6</u>	<u>16954</u>	<u>N/A</u>

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg.)	Canister Vacuum After Sampling (in. Hg.)	Canister ID	Flow Cont. ID	ANALYSES REQUESTED	Sampling Media
<u>7538-INF</u>	<u>2/15/16</u>	<u>AE</u>	<u>-30</u>	<u>-4</u>	<u>17348</u>	<u>N/A</u>	<u>70-15</u>	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
<u>7538-EFF</u>	<u>"</u>	<u>AE</u>	<u>-30</u>	<u>-6</u>	<u>16954</u>	<u>N/A</u>	<u>"</u>	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
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								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag

Comments	Samples Relinquished By	Date/Time	Samples Received By	Date/Time
<u>* NO FLOW REGULATORS</u>	<u>Masthe</u>	<u>2/26/16 10:30 AM</u>	<u>K. Barker</u>	<u>2/26/16 10:30 AM</u>
	Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
			<u>P. Rea</u>	<u>2-26-16 1747</u>



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Jamie Spero**

Report Date: 04/08/2016  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 16D0009

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 04/08/2016  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 16D0009

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Jamie Spero

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 01, 2016 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16D0009-01	INF	Air	03/31/2016	04/01/2016
16D0009-02	EFF	Air	03/31/2016	04/01/2016

## General Notes for York Project (SDG) No.: 16D0009

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 04/08/2016





### Sample Information

**Client Sample ID:** INF

**York Sample ID:** 16D0009-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
16D0009	7538-MRNY	Air	March 31, 2016 3:00 pm	04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 21:49	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.74	0.74	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>4.6</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.70	0.70	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>0.93</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.66	0.66	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 21:49	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
78-93-3	<b>2-Butanone</b>	<b>6.6</b>		ug/m <sup>3</sup>	0.29	0.29	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS



### Sample Information

**Client Sample ID:** INF

**York Sample ID:** 16D0009-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	0.82	0.82	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 21:49	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	1.6	1.6	1	EPA TO-15 Certifications: NELAC-NY10854	04/06/2016 08:53	04/07/2016 21:49	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
67-64-1	<b>Acetone</b>	<b>8.7</b>		ug/m <sup>3</sup>	0.48	0.48	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.22	0.22	1	EPA TO-15 Certifications: NELAC-NY10854	04/06/2016 08:53	04/07/2016 21:49	LDS
71-43-2	<b>Benzene</b>	<b>3.2</b>		ug/m <sup>3</sup>	0.32	0.32	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.52	0.52	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.67	0.67	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.0	1.0	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.39	0.39	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.31	0.31	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.16	0.16	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
74-87-3	<b>Chloromethane</b>	<b>1.1</b>		ug/m <sup>3</sup>	0.21	0.21	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>34</b>		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
110-82-7	<b>Cyclohexane</b>	<b>1.5</b>		ug/m <sup>3</sup>	0.34	0.34	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	0.85	0.85	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.0</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 21:49	LDS



### Sample Information

**Client Sample ID:** INF

**York Sample ID:** 16D0009-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	2.1		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.1	1.1	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.36	0.36	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-09-2	Methylene chloride	5.1		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
142-82-5	n-Heptane	2.5		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
110-54-3	n-Hexane	8.8		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
95-47-6	o-Xylene	3.1		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
179601-23-1	p- & m- Xylenes	9.7		ug/m <sup>3</sup>	0.87	0.87	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
622-96-8	* p-Ethyltoluene	3.7		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
115-07-1	* Propylene	0.81		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
127-18-4	Tetrachloroethylene	260		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
109-99-9	* Tetrahydrofuran	4.4		ug/m <sup>3</sup>	0.59	0.59	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
108-88-3	Toluene	13		ug/m <sup>3</sup>	0.38	0.38	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
156-60-5	trans-1,2-Dichloroethylene	0.59		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
79-01-6	Trichloroethylene	48		ug/m <sup>3</sup>	0.13	0.13	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	1.3		ug/m <sup>3</sup>	0.56	0.56	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.44	0.44	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS



### Sample Information

**Client Sample ID:** INF

**York Sample ID:** 16D0009-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: p-Bromofluorobenzene	101 %			72-118						

### Sample Information

**Client Sample ID:** EFF

**York Sample ID:** 16D0009-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.74	0.74	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>2.8</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.70	0.70	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS



### Sample Information

**Client Sample ID:** EFF

**York Sample ID:** 16D0009-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
108-67-8	1,3,5-Trimethylbenzene	0.64		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.66	0.66	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:				
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
78-93-3	2-Butanone	2.8		ug/m <sup>3</sup>	0.29	0.29	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	0.82	0.82	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:				
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	1.6	1.6	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854			
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
67-64-1	Acetone	20		ug/m <sup>3</sup>	0.48	0.48	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.22	0.22	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854			
71-43-2	Benzene	1.2		ug/m <sup>3</sup>	0.32	0.32	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.52	0.52	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.67	0.67	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.0	1.0	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.39	0.39	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.31	0.31	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.16	0.16	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.26	0.26	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15	04/06/2016 08:53	04/07/2016 22:50	LDS	
								Certifications:	NELAC-NY10854,NJDEP			





### Sample Information

**Client Sample ID:** EFF

**York Sample ID:** 16D0009-02

York Project (SDG) No.

Client Project ID

Matrix

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16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	1.3		ug/m <sup>3</sup>	0.21	0.21	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
156-59-2	cis-1,2-Dichloroethylene	3.5		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.34	0.34	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	0.85	0.85	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-71-8	Dichlorodifluoromethane	3.3		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
100-41-4	Ethyl Benzene	0.78		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.1	1.1	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.36	0.36	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-09-2	Methylene chloride	1.3		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
142-82-5	n-Heptane	0.45		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
110-54-3	n-Hexane	1.4		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
95-47-6	o-Xylene	1.3		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
179601-23-1	p- & m- Xylenes	3.9		ug/m <sup>3</sup>	0.87	0.87	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
622-96-8	* p-Ethyltoluene	1.9		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
127-18-4	Tetrachloroethylene	0.95		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
109-99-9	* Tetrahydrofuran	1.3		ug/m <sup>3</sup>	0.59	0.59	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
108-88-3	Toluene	2.9		ug/m <sup>3</sup>	0.38	0.38	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS



### Sample Information

**Client Sample ID:** EFF

**York Sample ID:** 16D0009-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.13	0.13		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>0.67</b>		ug/m <sup>3</sup>	0.56	0.56		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.35	0.35		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.44	0.44		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-01-4	<b>Vinyl Chloride</b>	<b>1.0</b>		ug/m <sup>3</sup>	0.26	0.26		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>							
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	99.4 %			72-118							



## Notes and Definitions

QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



**YORK**  
ANALYTICAL LABORATORIES, INC.

# Field Chain-of-Custody Record - AIR

Page      of       
York Project No. 160009

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

<b>YOUR INFORMATION</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR PROJECT ID</b>		<b>Turn-Around Time</b>		<b>Report Type/Deliverables</b>	
Company: <u>ACT</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	RUSH - Same Day <input type="checkbox"/>	RUSH - Next Day <input type="checkbox"/>	Summary Report <input checked="" type="checkbox"/>	Summary w/ QA Summary <input type="checkbox"/>
Address: <u>110 Main St</u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	RUSH - Two Day <input type="checkbox"/>	RUSH - Three Day <input type="checkbox"/>	CT RCP Package <input type="checkbox"/>	NY ASP A Package <input type="checkbox"/>
Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	RUSH - Four Day <input type="checkbox"/>	Standard(5-7 Days) <input checked="" type="checkbox"/>	NY ASP B/CLP Pkg <input type="checkbox"/>	NYDEP Reduced <input type="checkbox"/>
Contact Person: <u>Karen Friedman</u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Electronic Deliverables: <input type="checkbox"/>	Standard Excel <input type="checkbox"/>	Regulatory Comparison Excel <input type="checkbox"/>	Regulatory Comparison Excel <input type="checkbox"/>
E-Mail Address: <u>Karen.Friedman@act.com</u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>	<b>Special Instructions</b>		

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

**Additional Notes:**

**Air Matrix Codes**

AI- INDOOR Ambient Air	AO- OUTDOOR Amb. Air	AE- Vapor Extraction Well/ Process Gas/Effluent	AS- SOIL Vapor/Sub-Slab
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Samples Collected/Authorized By (Signature) Tim Yang

Name (printed) Tim Yang

**Please enter the following Field Data**

Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID
<u>-26</u>	<u>-3</u>	<u>17348</u>	<u>    </u>
<u>-30</u>	<u>-4</u>	<u>18303</u>	<u>    </u>

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
<u>TNF</u>	<u>3/31/16</u>		<u>-26</u>	<u>-3</u>	<u>17348</u>		<u>TO-15</u>	6 Liter canister Tedlar Bag
<u>IE PF</u>	<u>    </u>		<u>-30</u>	<u>-4</u>	<u>18303</u>		<u>    </u>	6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
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								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag

**Comments**

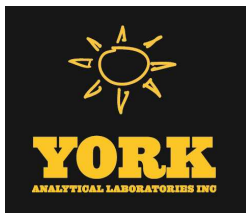
No Flow reg

Samples Relinquished By      Date/Time 4/1/16 10:30 am

Samples Relinquished By      Date/Time     

Samples Received By KBaker 4/1/16 Date/Time 10:00 AM

Samples Received in LAB by Grace 4-1-16 1625 Date/Time



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Jamie Spero**

Report Date: 04/08/2016  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 16D0009

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 04/08/2016  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 16D0009

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Jamie Spero

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 01, 2016 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16D0009-01	INF	Air	03/31/2016	04/01/2016
16D0009-02	EFF	Air	03/31/2016	04/01/2016

## General Notes for York Project (SDG) No.: 16D0009

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 04/08/2016





### Sample Information

**Client Sample ID:** INF

**York Sample ID:** 16D0009-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
16D0009	7538-MRNY	Air	March 31, 2016 3:00 pm	04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 21:49	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.74	0.74	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>4.6</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.70	0.70	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>0.93</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.66	0.66	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 21:49	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
78-93-3	<b>2-Butanone</b>	<b>6.6</b>		ug/m <sup>3</sup>	0.29	0.29	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS



### Sample Information

**Client Sample ID:** INF

**York Sample ID:** 16D0009-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	0.82	0.82	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 21:49	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	1.6	1.6	1	EPA TO-15 Certifications: NELAC-NY10854	04/06/2016 08:53	04/07/2016 21:49	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
67-64-1	<b>Acetone</b>	<b>8.7</b>		ug/m <sup>3</sup>	0.48	0.48	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.22	0.22	1	EPA TO-15 Certifications: NELAC-NY10854	04/06/2016 08:53	04/07/2016 21:49	LDS
71-43-2	<b>Benzene</b>	<b>3.2</b>		ug/m <sup>3</sup>	0.32	0.32	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.52	0.52	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.67	0.67	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.0	1.0	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.39	0.39	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.31	0.31	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.16	0.16	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
74-87-3	<b>Chloromethane</b>	<b>1.1</b>		ug/m <sup>3</sup>	0.21	0.21	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>34</b>		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
110-82-7	<b>Cyclohexane</b>	<b>1.5</b>		ug/m <sup>3</sup>	0.34	0.34	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	0.85	0.85	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.0</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 21:49	LDS





### Sample Information

**Client Sample ID:** INF

**York Sample ID:** 16D0009-01

York Project (SDG) No.

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Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	2.1		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.1	1.1	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.36	0.36	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-09-2	Methylene chloride	5.1		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
142-82-5	n-Heptane	2.5		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
110-54-3	n-Hexane	8.8		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
95-47-6	o-Xylene	3.1		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
179601-23-1	p- & m- Xylenes	9.7		ug/m <sup>3</sup>	0.87	0.87	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
622-96-8	* p-Ethyltoluene	3.7		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
115-07-1	* Propylene	0.81		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
127-18-4	Tetrachloroethylene	260		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
109-99-9	* Tetrahydrofuran	4.4		ug/m <sup>3</sup>	0.59	0.59	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
108-88-3	Toluene	13		ug/m <sup>3</sup>	0.38	0.38	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
156-60-5	trans-1,2-Dichloroethylene	0.59		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
79-01-6	Trichloroethylene	48		ug/m <sup>3</sup>	0.13	0.13	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	1.3		ug/m <sup>3</sup>	0.56	0.56	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.44	0.44	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 21:49	LDS



### Sample Information

**Client Sample ID:** INF

**York Sample ID:** 16D0009-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: p-Bromofluorobenzene	101 %			72-118						

### Sample Information

**Client Sample ID:** EFF

**York Sample ID:** 16D0009-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.74	0.74	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>2.8</b>		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.70	0.70	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS



### Sample Information

**Client Sample ID:** EFF

**York Sample ID:** 16D0009-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-67-8	1,3,5-Trimethylbenzene	0.64		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.66	0.66	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
78-93-3	2-Butanone	2.8		ug/m <sup>3</sup>	0.29	0.29	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	0.82	0.82	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	1.6	1.6	1	EPA TO-15 Certifications: NELAC-NY10854	04/06/2016 08:53	04/07/2016 22:50	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
67-64-1	Acetone	20		ug/m <sup>3</sup>	0.48	0.48	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.22	0.22	1	EPA TO-15 Certifications: NELAC-NY10854	04/06/2016 08:53	04/07/2016 22:50	LDS
71-43-2	Benzene	1.2		ug/m <sup>3</sup>	0.32	0.32	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.52	0.52	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.67	0.67	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.0	1.0	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.39	0.39	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.31	0.31	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.16	0.16	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS



### Sample Information

**Client Sample ID:** EFF

**York Sample ID:** 16D0009-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	1.3		ug/m <sup>3</sup>	0.21	0.21	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
156-59-2	cis-1,2-Dichloroethylene	3.5		ug/m <sup>3</sup>	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.34	0.34	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	0.85	0.85	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-71-8	Dichlorodifluoromethane	3.3		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	0.72	0.72	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
100-41-4	Ethyl Benzene	0.78		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.1	1.1	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.36	0.36	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-09-2	Methylene chloride	1.3		ug/m <sup>3</sup>	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
142-82-5	n-Heptane	0.45		ug/m <sup>3</sup>	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
110-54-3	n-Hexane	1.4		ug/m <sup>3</sup>	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
95-47-6	o-Xylene	1.3		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
179601-23-1	p- & m- Xylenes	3.9		ug/m <sup>3</sup>	0.87	0.87	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
622-96-8	* p-Ethyltoluene	1.9		ug/m <sup>3</sup>	0.49	0.49	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
127-18-4	Tetrachloroethylene	0.95		ug/m <sup>3</sup>	0.17	0.17	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
109-99-9	* Tetrahydrofuran	1.3		ug/m <sup>3</sup>	0.59	0.59	1	EPA TO-15 Certifications:	04/06/2016 08:53	04/07/2016 22:50	LDS
108-88-3	Toluene	2.9		ug/m <sup>3</sup>	0.38	0.38	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS



**Sample Information**

**Client Sample ID:** EFF

**York Sample ID:** 16D0009-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0009

7538-MRNY

Air

March 31, 2016 3:00 pm

04/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.45	0.45		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.13	0.13		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>0.67</b>		ug/m <sup>3</sup>	0.56	0.56		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.35	0.35		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.44	0.44		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
75-01-4	<b>Vinyl Chloride</b>	<b>1.0</b>		ug/m <sup>3</sup>	0.26	0.26		1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/06/2016 08:53	04/07/2016 22:50	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>							
460-00-4	Surrogate: p-Bromofluorobenzene	99.4 %			72-118							



## Notes and Definitions

QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



**YORK**  
ANALYTICAL LABORATORIES, INC.

# Field Chain-of-Custody Record - AIR

Page      of       
York Project No. 160009

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

<b>YOUR INFORMATION</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR PROJECT ID</b>		<b>Turn-Around Time</b>		<b>Report Type/Deliverables</b>			
Company: <u>ACT</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	Company: <u>GAME</u>	<input type="checkbox"/> RUSH - Same Day	<input type="checkbox"/> RUSH - Next Day	<input type="checkbox"/> RUSH - Two Day	<input type="checkbox"/> RUSH - Three Day	<input type="checkbox"/> RUSH - Four Day	Summary Report
Address: <u>110 Main St</u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	<input type="checkbox"/> Standard (5-7 Days) <input checked="" type="checkbox"/>	<input type="checkbox"/> Standard	<input type="checkbox"/> Standard	<input type="checkbox"/> Standard	<input type="checkbox"/> Standard	Summary w/ QA Summary
Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	Phone No. <u>    </u>	Purchase Order No. <u>    </u>		Purchase Order No. <u>    </u>		Purchase Order No. <u>    </u>	
Contact Person: <u>Karen Friedman</u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Samples from: CT <u>    </u> NY <input checked="" type="checkbox"/> NJ <u>    </u>		Samples from: CT <u>    </u> NY <input checked="" type="checkbox"/> NJ <u>    </u>		Samples from: CT <u>    </u> NY <input checked="" type="checkbox"/> NJ <u>    </u>	
E-Mail Address: <u>Karen.Friedman@act.com</u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	Additional Notes:		Additional Notes:		Additional Notes:	

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

TIM  
Samples Collected/Authorized By (Signature)  
Tim Yang  
Name (printed)

**Air Matrix Codes**  
 AI- INDOOR Ambient Air  
 AO- OUTDOOR Amb. Air  
 AE- Vapor Extraction Well/  
 Process Gas/Effluent  
 AS- SOIL Vapor/Sub-Slab

**Please enter the following Field Data**

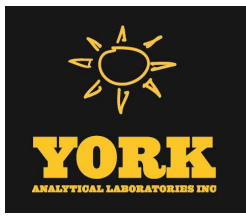
Detection Limits Required  
 ≤ 1 ug/m<sup>3</sup>  
 NYSDEC VI Limits  
 (VI = vapor intrusion)  
 NJDEP low level  
 Routine Survey  
 Other

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont. ID	ANALYSES REQUESTED	Sampling Media
<u>TNF</u>	<u>3/31/16</u>		<u>-26</u>	<u>-3</u>	<u>17348</u>		<u>TO-15</u>	6 Liter canister Tedlar Bag
<u>IEFF</u>	<u>    </u>		<u>-30</u>	<u>-4</u>	<u>18303</u>		<u>    </u>	6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag

**Comments**  
No Flow reg

Samples Relinquished By      Date/Time 4/1/16 10:30 am  
 Samples Relinquished By      Date/Time     

Samples Received By KBaker 4/1/16 Date/Time 10:00 AM  
 Samples Received in LAB by Grace 4-1-16 1625 Date/Time



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 04/29/2016  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 16D0979

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440



Report Date: 04/29/2016  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 16D0979

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 27, 2016 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16D0979-01	INF-7538	Vapor Extraction	04/26/2016	04/27/2016
16D0979-02	EFF-7538	Vapor Extraction	04/26/2016	04/27/2016

## General Notes for York Project (SDG) No.: 16D0979

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 04/29/2016





### Sample Information

**Client Sample ID:** INF-7538

**York Sample ID:** 16D0979-01

<u>York Project (SDG) No.</u> 16D0979	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Vapor Extraction	<u>Collection Date/Time</u> April 26, 2016 3:00 pm	<u>Date Received</u> 04/27/2016
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**Volatile Organics, EPA TO15 Full List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	18.26	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 02:38	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	10	10	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	14	14	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	10	10	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.4	7.4	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.2	7.2	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	14	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.0	9.0	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	14	14	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.4	7.4	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.4	8.4	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	13	13	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.0	9.0	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	12	12	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	8.4	8.4	18.26	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 02:38	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	13	13	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.4	5.4	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS



### Sample Information

**Client Sample ID:** INF-7538

**York Sample ID:** 16D0979-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0979

7538-MRNY

Vapor Extraction

April 26, 2016 3:00 pm

04/27/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	15	15	18.26	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 02:38	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	29	29	18.26	EPA TO-15 Certifications: NELAC-NY10854	04/28/2016 11:10	04/29/2016 02:38	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.5	7.5	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
67-64-1	Acetone	ND		ug/m <sup>3</sup>	8.7	8.7	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.0	4.0	18.26	EPA TO-15 Certifications: NELAC-NY10854	04/28/2016 11:10	04/29/2016 02:38	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	5.8	5.8	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	9.5	9.5	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	12	12	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	19	19	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.1	7.1	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.7	5.7	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	2.9	2.9	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.4	8.4	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	4.8	4.8	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	8.9	8.9	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.8	3.8	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>100</b>		ug/m <sup>3</sup>	7.2	7.2	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.3	8.3	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.3	6.3	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	16	16	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.0	9.0	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	13	13	18.26	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 02:38	LDS



### Sample Information

**Client Sample ID:** INF-7538

**York Sample ID:** 16D0979-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0979

7538-MRNY

Vapor Extraction

April 26, 2016 3:00 pm

04/27/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	7.9	7.9	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	19	19	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.0	9.0	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.5	7.5	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.6	6.6	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	13	13	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.5	7.5	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.4	6.4	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	7.9	7.9	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	16	16	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.0	9.0	18.26	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 02:38	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.1	3.1	18.26	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 02:38	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	7.8	7.8	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>380</b>		ug/m <sup>3</sup>	3.1	3.1	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	11	11	18.26	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 02:38	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	6.9	6.9	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.2	7.2	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.3	8.3	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
79-01-6	<b>Trichloroethylene</b>	<b>85</b>		ug/m <sup>3</sup>	2.5	2.5	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	10	10	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.4	6.4	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.0	8.0	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS



### Sample Information

**Client Sample ID:** INF-7538

**York Sample ID:** 16D0979-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0979

7538-MRNY

Vapor Extraction

April 26, 2016 3:00 pm

04/27/2016

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.7	4.7	18.26	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 02:38	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
460-00-4	Surrogate: p-Bromofluorobenzene	96.2 %			72-118						

### Sample Information

**Client Sample ID:** EFF-7538

**York Sample ID:** 16D0979-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16D0979

7538-MRNY

Vapor Extraction

April 26, 2016 3:00 pm

04/27/2016

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	14	14	20.66	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 03:26	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	14	14	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	16	16	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	8.4	8.4	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	8.2	8.2	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	15	15	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	10	10	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	16	16	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	8.4	8.4	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	9.5	9.5	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS



### Sample Information

**Client Sample ID:** EFF-7538

**York Sample ID:** 16D0979-02

York Project (SDG) No.

Client Project ID

Matrix

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16D0979

7538-MRNY

Vapor Extraction

April 26, 2016 3:00 pm

04/27/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	14	14	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	10	10	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	14	14	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	9.5	9.5	20.66	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 03:26	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	15	15	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	6.1	6.1	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	17	17	20.66	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 03:26	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	32	32	20.66	EPA TO-15 Certifications: NELAC-NY10854	04/28/2016 11:10	04/29/2016 03:26	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	8.5	8.5	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
67-64-1	Acetone	ND		ug/m <sup>3</sup>	9.8	9.8	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.5	4.5	20.66	EPA TO-15 Certifications: NELAC-NY10854	04/28/2016 11:10	04/29/2016 03:26	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.6	6.6	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	11	11	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	14	14	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	21	21	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	8.0	8.0	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	6.4	6.4	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.2	3.2	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	9.5	9.5	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.5	5.5	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS



### Sample Information

**Client Sample ID:** EFF-7538

**York Sample ID:** 16D0979-02

York Project (SDG) No.

Client Project ID

Matrix

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16D0979

7538-MRNY

Vapor Extraction

April 26, 2016 3:00 pm

04/27/2016

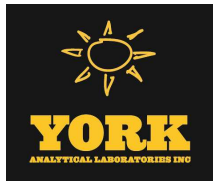
**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	10	10	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	4.3	4.3	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	8.2	8.2	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	9.4	9.4	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	7.1	7.1	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	18	18	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	10	10	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	15	15	20.66	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 03:26	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	9.0	9.0	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	22	22	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	10	10	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	8.5	8.5	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	7.4	7.4	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	14	14	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	8.5	8.5	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	7.3	7.3	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	9.0	9.0	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	18	18	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	10	10	20.66	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 03:26	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.6	3.6	20.66	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 03:26	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.8	8.8	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
127-18-4	Tetrachloroethylene	ND		ug/m <sup>3</sup>	3.5	3.5	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS



**Sample Information**

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7538-MRNY

Vapor Extraction

April 26, 2016 3:00 pm

04/27/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ					
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	12	12	20.66	EPA TO-15 Certifications:	04/28/2016 11:10	04/29/2016 03:26	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	7.8	7.8	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	8.2	8.2	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	9.4	9.4	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	2.8	2.8	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	12	12	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	7.3	7.3	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	9.0	9.0	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	5.3	5.3	20.66	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	04/28/2016 11:10	04/29/2016 03:26	LDS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	97.3 %			72-118						





## Notes and Definitions

- QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
- CCV-A The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

- 
- \* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.





# Field Chain-of-Custody Record - AIR

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 16DO979

<b>YOUR INFORMATION</b> Company: <u>ACT</u> Address: <u>110 Main St #03, Port Wash, NY 11050</u> Phone No. _____	<b>Report To:</b> Company: <u>ACT</u> Address: _____ Phone No. _____ Attention: <u>Marina Shapiro</u> Contact Person: <u>Marina Shapiro</u> E-Mail Address: <u>marinas@actenv.com</u> E-Mail Address: <u>actenv@actenv.com</u>	<b>Invoice To:</b> Company: <u>ACT</u> Address: _____ Phone No. _____ Attention: <u>Karen Friedinen</u> Contact Person: <u>Karen Friedinen</u> E-Mail Address: <u>karenf@actenv.com</u> E-Mail Address: <u>actenv.com</u>	<b>YOUR PROJECT ID</b> <u>7538-MRNY</u> <b>Purchase Order No.</b> _____	<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard(5-7 Days) <input checked="" type="checkbox"/>	<b>Report Type/Deliverables</b> Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B/CLP Pkg <input type="checkbox"/> NJDEP Reduced <input type="checkbox"/> <i>Electronic Deliverables:</i> EDD (Specify Type) _____ Standard Excel _____ Regulatory Comparison Excel _____
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**Additional Notes:**

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Marina Shapiro  
Samples Collected/Authorized By (Signature)  
Masha  
Name (printed)

**Air Matrix Codes**  
AI- INDOOR Ambient Air  
AO- OUTDOOR Amb. Air  
AE- Vapor Extraction Well/  
Process Gas/Effluent  
AS- SOIL Vapor/Sub-Slab

**Detection Limits Required**  
≤ 1 ug/m<sup>3</sup>  
NYSDEC VI Limits  
(VI = vapor maximum)  
NJDEP low level  
Routine Survey  
Other \_\_\_\_\_

**Special Instructions**

Please enter the following Field Data

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg.)	Canister Vacuum After Sampling (in. Hg.)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
INF-7538	AE 4/26/16	AE	-30	-2	20757	NA	TO-15	6 Liter canister Tedlar Bag
EFF-7538	AE 4/26/16	AE	-28	0	18316	NA	TO-15	6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag

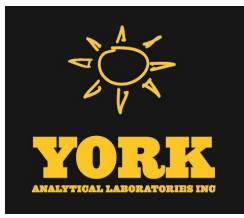
**Comments**

Samples Relinquished By ACT Date/Time 4/27 9:00AM

Samples Received By Abahy Date/Time 4/27 9:00AM

Samples Relinquished By Abahy 4-27-16 Date/Time \_\_\_\_\_

Samples Received in LAB by \_\_\_\_\_ Date/Time \_\_\_\_\_



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 06/06/2016  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 16F0011

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 06/06/2016  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 16F0011

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 01, 2016 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16F0011-01	7538-INF	Vapor Extraction	05/27/2016	06/01/2016
16F0011-02	7538-EFF	Vapor Extraction	05/27/2016	06/01/2016

## General Notes for York Project (SDG) No.: 16F0011

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 06/06/2016





### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16F0011-01

York Project (SDG) No.  
16F0011

Client Project ID  
7538-MRNY

Matrix  
Vapor Extraction

Collection Date/Time  
May 27, 2016 3:00 pm

Date Received  
06/01/2016

**Volatile Organics, EPA TO15 Full List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.3	1.3	1.874	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 12:34	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	1.0	1.0	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.3	1.3	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.4	1.4	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	1.0	1.0	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.76	0.76	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.74	0.74	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.4	1.4	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>6.9</b>		ug/m <sup>3</sup>	0.92	0.92	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.4	1.4	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.1	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.76	0.76	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.87	0.87	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.3	1.3	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>1.8</b>		ug/m <sup>3</sup>	0.92	0.92	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	1.2	1.2	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.1	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.87	0.87	1.874	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 12:34	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.1	1.1	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.4	1.4	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
78-93-3	<b>2-Butanone</b>	<b>2.9</b>		ug/m <sup>3</sup>	0.55	0.55	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16F0011-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16F0011

7538-MRNY

Vapor Extraction

May 27, 2016 3:00 pm

06/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.5	1.5	1.874	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 12:34	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.9	2.9	1.874	EPA TO-15 Certifications: NELAC-NY10854	06/03/2016 10:20	06/03/2016 12:34	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.77	0.77	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
67-64-1	<b>Acetone</b>	<b>25</b>		ug/m <sup>3</sup>	0.89	0.89	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.41	0.41	1.874	EPA TO-15 Certifications: NELAC-NY10854	06/03/2016 10:20	06/03/2016 12:34	LDS
71-43-2	<b>Benzene</b>	<b>5.0</b>		ug/m <sup>3</sup>	0.60	0.60	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.97	0.97	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.3	1.3	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.9	1.9	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.73	0.73	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.58	0.58	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.29	0.29	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.86	0.86	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.49	0.49	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.92	0.92	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.39	0.39	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>26</b>		ug/m <sup>3</sup>	0.74	0.74	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.85	0.85	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
110-82-7	<b>Cyclohexane</b>	<b>3.5</b>		ug/m <sup>3</sup>	0.65	0.65	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.6	1.6	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>3.4</b>		ug/m <sup>3</sup>	0.93	0.93	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	1.4	1.4	1.874	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 12:34	LDS



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16F0011-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16F0011

7538-MRNY

Vapor Extraction

May 27, 2016 3:00 pm

06/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	4.8		ug/m <sup>3</sup>	0.81	0.81	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	2.0	2.0	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
67-63-0	Isopropanol	11		ug/m <sup>3</sup>	0.92	0.92	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.77	0.77	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.68	0.68	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
75-09-2	Methylene chloride	43		ug/m <sup>3</sup>	1.3	1.3	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
142-82-5	n-Heptane	5.1		ug/m <sup>3</sup>	0.77	0.77	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
110-54-3	n-Hexane	34		ug/m <sup>3</sup>	0.66	0.66	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
95-47-6	o-Xylene	5.6		ug/m <sup>3</sup>	0.81	0.81	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
179601-23-1	p- & m- Xylenes	18		ug/m <sup>3</sup>	1.6	1.6	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
622-96-8	* p-Ethyltoluene	6.1		ug/m <sup>3</sup>	0.92	0.92	1.874	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 12:34	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.32	0.32	1.874	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 12:34	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.80	0.80	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
127-18-4	Tetrachloroethylene	300		ug/m <sup>3</sup>	0.32	0.32	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	1.1	1.1	1.874	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 12:34	LDS
108-88-3	Toluene	24		ug/m <sup>3</sup>	0.71	0.71	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.74	0.74	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.85	0.85	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
79-01-6	Trichloroethylene	42		ug/m <sup>3</sup>	0.25	0.25	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	2.7		ug/m <sup>3</sup>	1.1	1.1	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.66	0.66	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.82	0.82	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.48	0.48	1.874	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 12:34	LDS





### Sample Information

<b>Client Sample ID:</b> 7538-INF					<b>York Sample ID:</b> 16F0011-01
<u>York Project (SDG) No.</u> 16F0011	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Vapor Extraction	<u>Collection Date/Time</u> May 27, 2016 3:00 pm	<u>Date Received</u> 06/01/2016	

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	94.1 %			72-118						

### Sample Information

<b>Client Sample ID:</b> 7538-EFF					<b>York Sample ID:</b> 16F0011-02
<u>York Project (SDG) No.</u> 16F0011	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Vapor Extraction	<u>Collection Date/Time</u> May 27, 2016 3:00 pm	<u>Date Received</u> 06/01/2016	

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.3	1.3	1.938	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 13:27	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	1.1	1.1	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.3	1.3	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.5	1.5	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	1.1	1.1	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.78	0.78	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
75-35-4	<b>1,1-Dichloroethylene</b>	<b>0.85</b>		ug/m <sup>3</sup>	0.77	0.77	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.4	1.4	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>1.1</b>		ug/m <sup>3</sup>	0.95	0.95	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.5	1.5	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.2	1.2	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.78	0.78	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.90	0.90	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.4	1.4	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16F0011-02

York Project (SDG) No.

Client Project ID

Matrix

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16F0011

7538-MRNY

Vapor Extraction

May 27, 2016 3:00 pm

06/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.95	0.95	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	1.3	1.3	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.2	1.2	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.90	0.90	1.938	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 13:27	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.2	1.2	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.4	1.4	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
78-93-3	<b>2-Butanone</b>	<b>1.5</b>		ug/m <sup>3</sup>	0.57	0.57	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.6	1.6	1.938	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 13:27	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	3.0	3.0	1.938	EPA TO-15 Certifications: NELAC-NY10854	06/03/2016 10:20	06/03/2016 13:27	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.79	0.79	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
67-64-1	<b>Acetone</b>	<b>13</b>		ug/m <sup>3</sup>	0.92	0.92	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.42	0.42	1.938	EPA TO-15 Certifications: NELAC-NY10854	06/03/2016 10:20	06/03/2016 13:27	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	0.62	0.62	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	1.0	1.0	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.3	1.3	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	2.0	2.0	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.75	0.75	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.60	0.60	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.30	0.30	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.89	0.89	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.51	0.51	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.95	0.95	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16F0011-02

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Matrix

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16F0011

7538-MRNY

Vapor Extraction

May 27, 2016 3:00 pm

06/01/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
					LOD/MDL	LOQ					
74-87-3	Chloromethane	1.4		ug/m <sup>3</sup>	0.40	0.40	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
156-59-2	cis-1,2-Dichloroethylene	10		ug/m <sup>3</sup>	0.77	0.77	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.88	0.88	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.67	0.67	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.7	1.7	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
75-71-8	Dichlorodifluoromethane	3.4		ug/m <sup>3</sup>	0.96	0.96	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	1.4	1.4	1.938	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 13:27	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	0.84	0.84	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	2.1	2.1	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.95	0.95	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.79	0.79	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.70	0.70	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
75-09-2	Methylene chloride	1.3		ug/m <sup>3</sup>	1.3	1.3	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.79	0.79	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	0.68	0.68	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	0.84	0.84	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	1.7	1.7	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	0.95	0.95	1.938	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 13:27	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.33	0.33	1.938	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 13:27	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.83	0.83	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
127-18-4	Tetrachloroethylene	1.7		ug/m <sup>3</sup>	0.33	0.33	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
109-99-9	* Tetrahydrofuran	1.5		ug/m <sup>3</sup>	1.1	1.1	1.938	EPA TO-15 Certifications:	06/03/2016 10:20	06/03/2016 13:27	LDS



**Sample Information**

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16F0011-02

York Project (SDG) No.

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Matrix

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16F0011

7538-MRNY

Vapor Extraction

May 27, 2016 3:00 pm

06/01/2016

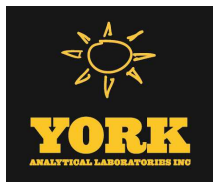
**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ					
108-88-3	Toluene	ND		ug/m <sup>3</sup>	0.73	0.73	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.77	0.77	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.88	0.88	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	0.26	0.26	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>1.4</b>		ug/m <sup>3</sup>	1.1	1.1	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.68	0.68	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.85	0.85	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.50	0.50	1.938	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	06/03/2016 10:20	06/03/2016 13:27	LDS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	102 %			72-118						



## Notes and Definitions

QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



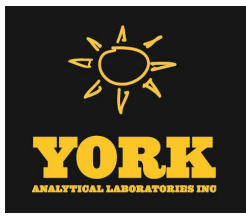
# Field Chain-of-Custody Record - AIR

Page      of     

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 16FO11

YOUR INFORMATION		Report To:		Invoice To:		YOUR PROJECT ID		Turn-Around Time		Report Type/Deliverables		
Company: <u>Advanced Cleanup Tech</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	<input type="checkbox"/> RUSH - Same Day	<input type="checkbox"/> RUSH - Next Day	<input type="checkbox"/> RUSH - Two Day	<input type="checkbox"/> RUSH - Three Day	<input checked="" type="checkbox"/> Summary Report
Address: <u>110 Main St.</u>	Address: <u>ACT</u>	Address: <u>ACT</u>	Address: <u>ACT</u>	Address: <u>ACT</u>	Address: <u>ACT</u>	Address: <u>ACT</u>	Address: <u>ACT</u>	<input type="checkbox"/> RUSH - Four Day	<input type="checkbox"/> RUSH - Five Day	<input type="checkbox"/> RUSH - Six Day	<input type="checkbox"/> RUSH - Seven Day	Summary w/ QA summary
Phone No. <u>516-441-5800</u>	Phone No. <u>ACT</u>	Phone No. <u>ACT</u>	Phone No. <u>ACT</u>	Phone No. <u>ACT</u>	Phone No. <u>ACT</u>	Phone No. <u>ACT</u>	Phone No. <u>ACT</u>	<input type="checkbox"/> NY ASP A Package	<input type="checkbox"/> NY ASP B/CLP Pkg	<input type="checkbox"/> NY ASP C/CLP Pkg	<input type="checkbox"/> NY ASP D/CLP Pkg	CT RCP Package
Contact Person: <u>Tim Young</u>	Attention: <u>Maria Shapiro</u>	Attention: <u>Maria Shapiro</u>	Attention: <u>Maria Shapiro</u>	Attention: <u>Maria Shapiro</u>	Attention: <u>Maria Shapiro</u>	Attention: <u>Maria Shapiro</u>	Attention: <u>Maria Shapiro</u>	<input type="checkbox"/> Electronic Deliverables:	<input type="checkbox"/> EDD (Specify Type)	<input type="checkbox"/> Standard Excel	<input type="checkbox"/> Regulatory Comparison Excel	
E-Mail Address: <u>tim@actenv.com</u>	E-Mail Address: <u>maria.s@actenv.com</u>	E-Mail Address: <u>maria.s@actenv.com</u>	E-Mail Address: <u>maria.s@actenv.com</u>	E-Mail Address: <u>maria.s@actenv.com</u>	E-Mail Address: <u>maria.s@actenv.com</u>	E-Mail Address: <u>maria.s@actenv.com</u>	E-Mail Address: <u>maria.s@actenv.com</u>	Standard(5-7 Days) <input checked="" type="checkbox"/>	<b>Special Instructions</b>			
<b>Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until all questions by York are resolved.</b>												
Samples Collected/Authorized By (Signature) <u>Tim Young</u>				Air Matrix Codes AI- INDOOR Ambient Air AO- OUTDOOR Amb. Air AE- Vapor Extraction Well/ Process Gas/Effluent AS- SOIL Vapor/Sub-Slab				Additional Notes: <b>Please enter the following Field Data</b>				
Name (printed) <u>Tim Young</u>												
Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont. ID	ANALYSES REQUESTED	Sampling Media				
7538-1NF	5/27	AE	-24	-2	Y78	X	TO-15	6 Liter canister Tedlar Bag				
7538-3FF	5/27	AE	-30	-5	18294	X	"	6 Liter canister Tedlar Bag				
								6 Liter canister Tedlar Bag				
								6 Liter canister Tedlar Bag				
								6 Liter canister Tedlar Bag				
								6 Liter canister Tedlar Bag				
								6 Liter canister Tedlar Bag				
								6 Liter canister Tedlar Bag				
								6 Liter canister Tedlar Bag				
								6 Liter canister Tedlar Bag				
								6 Liter canister Tedlar Bag				
Comments <u>NO FLOW REGULATORS</u>		Samples Relinquished By <u>[Signature]</u>		Date/Time <u>6/11/16 1051am</u>		Samples Received By <u>[Signature]</u>		Date/Time <u>6/11/16 1811</u>		Samples Received in LAB by <u>[Signature]</u>		Date/Time <u>6/11/16 1811</u>



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Mark Gelband**

Report Date: 06/15/2016  
**Client Project ID: 7538 MRNY**  
York Project (SDG) No.: 16F0370

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 06/15/2016  
Client Project ID: 7538 MRNY  
York Project (SDG) No.: 16F0370

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Mark Gelband

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 09, 2016 and listed below. The project was identified as your project: **7538 MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16F0370-01	MW-2D	Water	06/08/2016	06/09/2016
16F0370-02	MW-2S	Water	06/08/2016	06/09/2016
16F0370-03	MW-3D	Water	06/08/2016	06/09/2016

## General Notes for York Project (SDG) No.: 16F0370

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 06/15/2016







### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 16F0370-01

<u>York Project (SDG) No.</u> 16F0370	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 8, 2016 11:35 am	<u>Date Received</u> 06/09/2016
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
75-35-4	<b>1,1-Dichloroethylene</b>	<b>0.82</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 16F0370-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16F0370

7538 MRNY

Water

June 8, 2016 11:35 am

06/09/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
67-64-1	<b>Acetone</b>	<b>1.8</b>	J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>350</b>		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/14/2016 12:34	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 16F0370-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16F0370

7538 MRNY

Water

June 8, 2016 11:35 am

06/09/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	06/13/2016 09:18	06/13/2016 14:38	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	06/13/2016 09:18	06/13/2016 14:38	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>26</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
79-01-6	<b>Trichloroethylene</b>	<b>4.3</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 16F0370-01

<u>York Project (SDG) No.</u> 16F0370	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 8, 2016 11:35 am	<u>Date Received</u> 06/09/2016
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#### Volatile Organics, NJDEP/TCL/Part 375 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	06/13/2016 09:18	06/13/2016 14:38	BK
	<b>Surrogate Recoveries</b>	<b>Result</b>									
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.9 %									
2037-26-5	Surrogate: Toluene-d8	97.7 %									
460-00-4	Surrogate: p-Bromofluorobenzene	97.1 %									

### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 16F0370-02

<u>York Project (SDG) No.</u> 16F0370	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 8, 2016 12:30 pm	<u>Date Received</u> 06/09/2016
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#### Volatile Organics, NJDEP/TCL/Part 375 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 16F0370-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16F0370

7538 MRNY

Water

June 8, 2016 12:30 pm

06/09/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 16F0370-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16F0370

7538 MRNY

Water

June 8, 2016 12:30 pm

06/09/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	06/13/2016 09:18	06/13/2016 15:04	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	06/13/2016 09:18	06/13/2016 15:04	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 16F0370-02

<u>York Project (SDG) No.</u> 16F0370	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 8, 2016 12:30 pm	<u>Date Received</u> 06/09/2016
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
75-65-0	<b>tert-Butyl alcohol (TBA)</b>	<b>0.60</b>	J	ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
127-18-4	<b>Tetrachloroethylene</b>	<b>0.21</b>	ICV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	06/13/2016 09:18	06/13/2016 15:04	BK
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.7 %	69-130								
2037-26-5	Surrogate: Toluene-d8	97.8 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	96.4 %	79-122								

### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 16F0370-03

<u>York Project (SDG) No.</u> 16F0370	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 8, 2016 10:30 am	<u>Date Received</u> 06/09/2016
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 16F0370-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16F0370

7538 MRNY

Water

June 8, 2016 10:30 am

06/09/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK





### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 16F0370-03

<u>York Project (SDG) No.</u> 16F0370	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 8, 2016 10:30 am	<u>Date Received</u> 06/09/2016
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>5.5</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 16F0370-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16F0370

7538 MRNY

Water

June 8, 2016 10:30 am

06/09/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	06/13/2016 09:18	06/13/2016 15:30	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	06/13/2016 09:18	06/13/2016 15:30	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	06/13/2016 09:18	06/13/2016 15:30	BK



**Sample Information**

**Client Sample ID:** MW-3D

**York Sample ID:** 16F0370-03

York Project (SDG) No.  
16F0370

Client Project ID  
7538 MRNY

Matrix  
Water

Collection Date/Time  
June 8, 2016 10:30 am

Date Received  
06/09/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

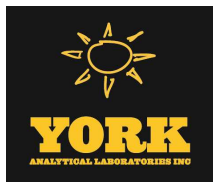
Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.9 %				69-130					
2037-26-5	Surrogate: Toluene-d8	97.1 %				81-117					
460-00-4	Surrogate: p-Bromofluorobenzene	97.5 %				79-122					



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
16F0370-01	MW-2D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16F0370-02	MW-2S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16F0370-03	MW-3D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Notes and Definitions

- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
- ICV-E The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
- B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

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\* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.

For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

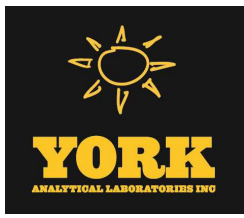
Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.







# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Mark Gelband**

Report Date: 06/17/2016  
**Client Project ID: 7538 MRNY**  
York Project (SDG) No.: 16F0494

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440



Report Date: 06/17/2016  
Client Project ID: 7538 MRNY  
York Project (SDG) No.: 16F0494

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Mark Gelband

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 13, 2016 and listed below. The project was identified as your project: **7538 MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16F0494-01	MW 1S	Water	06/09/2016	06/13/2016
16F0494-02	MW 1D	Water	06/09/2016	06/13/2016

## General Notes for York Project (SDG) No.: 16F0494

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 06/17/2016





### Sample Information

**Client Sample ID:** MW 1S

**York Sample ID:** 16F0494-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
16F0494	7538 MRNY	Water	June 9, 2016 11:00 am	06/13/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>1.1</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
75-35-4	<b>1,1-Dichloroethylene</b>	<b>1.1</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
95-50-1	<b>1,2-Dichlorobenzene</b>	<b>0.27</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
106-46-7	<b>1,4-Dichlorobenzene</b>	<b>0.55</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS



### Sample Information

**Client Sample ID:** MW 1S

**York Sample ID:** 16F0494-01

<u>York Project (SDG) No.</u> 16F0494	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 9, 2016 11:00 am	<u>Date Received</u> 06/13/2016
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
67-64-1	<b>Acetone</b>	<b>1.1</b>	CCV-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
			SCAL- E, J, B								
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
108-90-7	<b>Chlorobenzene</b>	<b>0.86</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>5100</b>		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/16/2016 17:53	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS



### Sample Information

**Client Sample ID:** MW 1S

**York Sample ID:** 16F0494-01

<u>York Project (SDG) No.</u> 16F0494	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 9, 2016 11:00 am	<u>Date Received</u> 06/13/2016
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	06/14/2016 08:38	06/14/2016 13:25	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	06/14/2016 08:38	06/14/2016 13:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>880</b>		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/15/2016 20:48	BK
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>100</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:25	SS
79-01-6	<b>Trichloroethylene</b>	<b>2700</b>		ug/L	5.0	12	25	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/15/2016 20:48	BK



Sample Information

Client Sample ID: MW 1S

York Sample ID: 16F0494-01

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 16F0494, 7538 MRNY, Water, June 9, 2016 11:00 am, 06/13/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Main data table for MW 1S with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Trichlorofluoromethane, Vinyl Chloride, Xylenes, Total, and Surrogate Recoveries.

Sample Information

Client Sample ID: MW 1D

York Sample ID: 16F0494-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 16F0494, 7538 MRNY, Water, June 9, 2016 12:45 pm, 06/13/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Main data table for MW 1D with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Tetrachloroethane, Trichloroethane, 1,1,2-Trichloroethane, Dichloroethane, 1,1-Dichloroethylene, Trichlorobenzene, Trichloropropane, and Trichlorobenzene.



### Sample Information

**Client Sample ID:** MW 1D

**York Sample ID:** 16F0494-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16F0494

7538 MRNY

Water

June 9, 2016 12:45 pm

06/13/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	1.0		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
95-50-1	1,2-Dichlorobenzene	2.1		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
106-46-7	1,4-Dichlorobenzene	0.43	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS



### Sample Information

**Client Sample ID:** MW 1D

**York Sample ID:** 16F0494-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16F0494

7538 MRNY

Water

June 9, 2016 12:45 pm

06/13/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
108-90-7	<b>Chlorobenzene</b>	<b>0.89</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>2000</b>		ug/L	10	25	50	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/15/2016 21:14	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
103-65-1	<b>n-Propylbenzene</b>	<b>0.20</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	06/14/2016 08:38	06/14/2016 13:51	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	06/14/2016 08:38	06/14/2016 13:51	SS



### Sample Information

**Client Sample ID:** MW 1D

**York Sample ID:** 16F0494-02

<u>York Project (SDG) No.</u> 16F0494	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 9, 2016 12:45 pm	<u>Date Received</u> 06/13/2016
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>2000</b>		ug/L	10	25	50	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/15/2016 21:14	BK
108-88-3	<b>Toluene</b>	<b>0.83</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>110</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
79-01-6	<b>Trichloroethylene</b>	<b>10000</b>		ug/L	50	120	250	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/16/2016 13:34	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
75-01-4	<b>Vinyl Chloride</b>	<b>1.9</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	06/14/2016 08:38	06/14/2016 13:51	SS

	<b>Surrogate Recoveries</b>	<b>Result</b>	<b>Acceptance Range</b>
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	105 %	69-130
2037-26-5	Surrogate: Toluene-d8	101 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	99.8 %	79-122





### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
16F0494-01	MW 1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16F0494-02	MW 1D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Notes and Definitions

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
<hr/>	
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

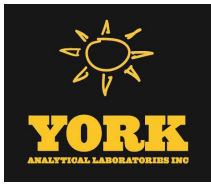
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

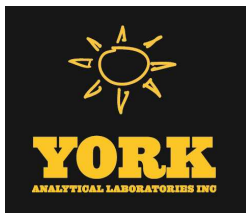
Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 07/14/2016  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 16G0298

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 07/14/2016  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 16G0298

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 11, 2016 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16G0298-01	7538 - INF	Vapor Extraction	07/06/2016	07/11/2016
16G0298-02	7538 - EFF	Vapor Extraction	07/06/2016	07/11/2016

## General Notes for York Project (SDG) No.: 16G0298

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 07/14/2016





### Sample Information

**Client Sample ID:** 7538 - INF

**York Sample ID:** 16G0298-01

<u>York Project (SDG) No.</u> 16G0298	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Vapor Extraction	<u>Collection Date/Time</u> July 6, 2016 3:00 pm	<u>Date Received</u> 07/11/2016
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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	14	14	20.24	EPA TO-15 Certifications:	07/12/2016 09:09	07/12/2016 15:45	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	14	14	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	16	16	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	8.2	8.2	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	8.0	8.0	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	15	15	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>87</b>		ug/m <sup>3</sup>	9.9	9.9	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	16	16	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	8.2	8.2	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	9.4	9.4	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	14	14	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>39</b>		ug/m <sup>3</sup>	10	10	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	13	13	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	9.4	9.4	20.24	EPA TO-15 Certifications:	07/12/2016 09:09	07/12/2016 15:45	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	15	15	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	6.0	6.0	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS



### Sample Information

**Client Sample ID:** 7538 - INF

**York Sample ID:** 16G0298-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16G0298

7538-MRNY

Vapor Extraction

July 6, 2016 3:00 pm

07/11/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	17	17	20.24	EPA TO-15 Certifications:	07/12/2016 09:09	07/12/2016 15:45	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	32	32	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	8.3	8.3	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
67-64-1	Acetone	ND		ug/m <sup>3</sup>	9.6	9.6	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.4	4.4	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.5	6.5	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	10	10	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	14	14	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	21	21	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.9	7.9	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	6.3	6.3	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.2	3.2	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	9.3	9.3	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.3	5.3	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.9	9.9	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	4.2	4.2	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>3900</b>		ug/m <sup>3</sup>	8.0	8.0	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	9.2	9.2	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
110-82-7	<b>Cyclohexane</b>	<b>13</b>		ug/m <sup>3</sup>	7.0	7.0	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	17	17	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	10	10	20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	15	15	20.24	EPA TO-15 Certifications:	07/12/2016 09:09	07/12/2016 15:45	LDS





## Sample Information

**Client Sample ID:** 7538 - INF

**York Sample ID:** 16G0298-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16G0298

7538-MRNY

Vapor Extraction

July 6, 2016 3:00 pm

07/11/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
100-41-4	<b>Ethyl Benzene</b>	<b>15</b>		ug/m <sup>3</sup>	8.8	8.8		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	22	22		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	10	10		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	8.3	8.3		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	7.3	7.3		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	14	14		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
142-82-5	<b>n-Heptane</b>	<b>22</b>		ug/m <sup>3</sup>	8.3	8.3		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
110-54-3	<b>n-Hexane</b>	<b>37</b>		ug/m <sup>3</sup>	7.1	7.1		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
95-47-6	<b>o-Xylene</b>	<b>83</b>		ug/m <sup>3</sup>	8.8	8.8		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>150</b>		ug/m <sup>3</sup>	18	18		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
622-96-8	<b>* p-Ethyltoluene</b>	<b>81</b>		ug/m <sup>3</sup>	10	10		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.5	3.5		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.6	8.6		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>14000</b>		ug/m <sup>3</sup>	14	14		80.96	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/13/2016 18:46	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	12	12		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
108-88-3	<b>Toluene</b>	<b>66</b>		ug/m <sup>3</sup>	7.6	7.6		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>44</b>		ug/m <sup>3</sup>	8.0	8.0		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	9.2	9.2		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
79-01-6	<b>Trichloroethylene</b>	<b>4700</b>		ug/m <sup>3</sup>	2.7	2.7		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	11		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	7.1	7.1		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.9	8.9		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS
75-01-4	<b>Vinyl Chloride</b>	<b>97</b>		ug/m <sup>3</sup>	5.2	5.2		20.24	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 15:45	LDS



### Sample Information

**Client Sample ID:** 7538 - INF

**York Sample ID:** 16G0298-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
16G0298	7538-MRNY	Vapor Extraction	July 6, 2016 3:00 pm	07/11/2016

### Sample Information

**Client Sample ID:** 7538 - EFF

**York Sample ID:** 16G0298-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
16G0298	7538-MRNY	Vapor Extraction	July 6, 2016 3:00 pm	07/11/2016

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	14	14	20.57	EPA TO-15 Certifications:	07/12/2016 09:09	07/12/2016 16:34	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	14	14	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	16	16	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	8.3	8.3	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	8.2	8.2	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	15	15	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>15</b>		ug/m <sup>3</sup>	10	10	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	16	16	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	8.3	8.3	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	9.5	9.5	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	14	14	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	10	10	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	14	14	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	9.5	9.5	20.57	EPA TO-15 Certifications:	07/12/2016 09:09	07/12/2016 16:34	LDS



### Sample Information

**Client Sample ID:** 7538 - EFF

**York Sample ID:** 16G0298-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16G0298

7538-MRNY

Vapor Extraction

July 6, 2016 3:00 pm

07/11/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	15	15	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	6.1	6.1	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	17	17	20.57	EPA TO-15 Certifications:	07/12/2016 09:09	07/12/2016 16:34	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	32	32	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	8.4	8.4	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
67-64-1	<b>Acetone</b>	<b>13</b>		ug/m <sup>3</sup>	9.8	9.8	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.5	4.5	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.6	6.6	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	11	11	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	14	14	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	21	21	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	8.0	8.0	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	6.4	6.4	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.2	3.2	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	9.5	9.5	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.4	5.4	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	10	10	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	4.2	4.2	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>46</b>		ug/m <sup>3</sup>	8.2	8.2	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	9.3	9.3	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	7.1	7.1	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS



### Sample Information

**Client Sample ID:** 7538 - EFF

**York Sample ID:** 16G0298-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16G0298

7538-MRNY

Vapor Extraction

July 6, 2016 3:00 pm

07/11/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	18	18	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	10	10	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	15	15	20.57	EPA TO-15 Certifications:	07/12/2016 09:09	07/12/2016 16:34	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.9	8.9	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	22	22	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	10	10	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	8.4	8.4	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	7.4	7.4	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	14	14	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	8.4	8.4	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	7.3	7.3	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.9	8.9	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>21</b>		ug/m <sup>3</sup>	18	18	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
622-96-8	<b>* p-Ethyltoluene</b>	<b>10</b>		ug/m <sup>3</sup>	10	10	20.57	EPA TO-15 Certifications:	07/12/2016 09:09	07/12/2016 16:34	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.5	3.5	20.57	EPA TO-15 Certifications:	07/12/2016 09:09	07/12/2016 16:34	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.8	8.8	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>96</b>		ug/m <sup>3</sup>	3.5	3.5	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	12	12	20.57	EPA TO-15 Certifications:	07/12/2016 09:09	07/12/2016 16:34	LDS
108-88-3	<b>Toluene</b>	<b>8.5</b>		ug/m <sup>3</sup>	7.8	7.8	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	8.2	8.2	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	9.3	9.3	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
79-01-6	<b>Trichloroethylene</b>	<b>30</b>		ug/m <sup>3</sup>	2.8	2.8	20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS



**Sample Information**

**Client Sample ID:** 7538 - EFF

**York Sample ID:** 16G0298-02

York Project (SDG) No.

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16G0298

7538-MRNY

Vapor Extraction

July 6, 2016 3:00 pm

07/11/2016

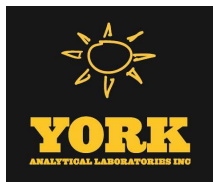
**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	12	12		20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	7.2	7.2		20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	9.0	9.0		20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	5.3	5.3		20.57	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	07/12/2016 09:09	07/12/2016 16:34	LDS



## Notes and Definitions

- QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
- CCV-A The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

- 
- \* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

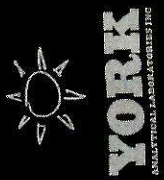
2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.





# Field Chain-of-Custody Record - AIR

Page 1 of 1  
 York Project No. 16G0298

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

<b>YOUR INFORMATION</b> Company: <u>Advanced Cleanup Tech</u> Address: <u>110 Main St.</u> <u>Port Washington, NY</u> Phone No. <u>516-441-5800</u> Contact Person: <u>Tim Young</u> E-Mail Address: <u>timy@act.earth</u>		<b>Report To:</b> Company: <u>ACT</u> Address: <u>same</u> Phone No. _____ Attention: <u>Maurice Shapiro</u> E-Mail Address: <u>MauriceS@act.earth</u>		<b>Invoice To:</b> Company: <u>ACT</u> Address: <u>same</u> Phone No. _____ Attention: <u>Karen Friedman</u> E-Mail Address: <u>KarenF@act.earth</u>		<b>YOUR PROJECT ID</b> <u>7538-MR-NY</u> <b>Purchase Order No.</b> _____ Samples from: CT <u>NY</u> X NJ		<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> <b>Standard(5-7 Days)</b> <input checked="" type="checkbox"/>		<b>Report Type/Deliverables</b> Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B/CLP Pkg <input type="checkbox"/> NJDEP Reduced <input type="checkbox"/> <i>Electronic Deliverables:</i> EDD (Specify Type) _____ Standard Excel _____ Regulatory Comparison Excel _____	
--	--	---	--	---	--	--	--	--	--	--	--

**Additional Notes:**

**Detection Limits Required**  
 ≤ 1 ug/m<sup>3</sup>  
 NYSDEC VI Limits (VI = vapor fraction)  
 NJDEP low level \_\_\_\_\_  
 Routine Survey \_\_\_\_\_  
 Other: \_\_\_\_\_

**Special Instructions**

**Please enter the following Field Data**

Canister Vacuum Before Sampling (in. Hg) → \_\_\_\_\_  
 Canister Vacuum After Sampling (in. Hg) → \_\_\_\_\_  
 Canister ID → \_\_\_\_\_  
 Flow Cont.ID → \_\_\_\_\_

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
7538-1NF	6/6/16	AE	-30	-4	478	X	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
7538-3FF	6/6/16	AE	-30	-4	18099	X	"	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag

**Comments**  
 please be sure to CC Paul Stewart in ALL Lab reports

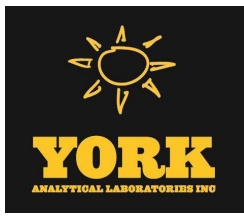
**Samples Relinquished By** MMM K. Val **Date/Time** 7-11-16 9:55 AM

**Samples Relinquished By** J. H. L. **Date/Time** 7/11/16-1907

**Samples Received By** ASBach **Date/Time** 7-11-16 9:55 AM

**Samples Received in LAB by** \_\_\_\_\_ **Date/Time** \_\_\_\_\_





# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 08/11/2016  
**Client Project ID: 7538 MRNY**  
York Project (SDG) No.: 16H0373

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 08/11/2016  
Client Project ID: 7538 MRNY  
York Project (SDG) No.: 16H0373

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 08, 2016 and listed below. The project was identified as your project: **7538 MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16H0373-01	7538-INF	Air	08/05/2016	08/08/2016
16H0373-02	7538-EFF	Air	08/05/2016	08/08/2016

## General Notes for York Project (SDG) No.: 16H0373

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 08/11/2016





### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16H0373-01

York Project (SDG) No.  
16H0373

Client Project ID  
7538 MRNY

Matrix  
Air

Collection Date/Time  
August 5, 2016 1:45 pm

Date Received  
08/08/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.70	0.70	1.022	EPA TO-15 Certifications:	08/09/2016 11:25	08/09/2016 21:08	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.56	0.56	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.70	0.70	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	0.78	0.78	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.56	0.56	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.41	0.41	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.41	0.41	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.76	0.76	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>4.1</b>		ug/m <sup>3</sup>	0.50	0.50	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	0.79	0.79	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.61	0.61	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.41	0.41	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
78-87-5	<b>1,2-Dichloropropane</b>	<b>1.6</b>		ug/m <sup>3</sup>	0.47	0.47	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.71	0.71	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>0.75</b>		ug/m <sup>3</sup>	0.50	0.50	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.68	0.68	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.61	0.61	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.47	0.47	1.022	EPA TO-15 Certifications:	08/09/2016 11:25	08/09/2016 21:08	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.61	0.61	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.74	0.74	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
78-93-3	<b>2-Butanone</b>	<b>4.2</b>		ug/m <sup>3</sup>	0.30	0.30	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16H0373-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16H0373

7538 MRNY

Air

August 5, 2016 1:45 pm

08/08/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	0.84	0.84	1.022	EPA TO-15 Certifications:	08/09/2016 11:25	08/09/2016 21:08	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	1.6	1.6	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.42	0.42	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
67-64-1	<b>Acetone</b>	<b>6.9</b>		ug/m <sup>3</sup>	0.49	0.49	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.22	0.22	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	0.33	0.33	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.53	0.53	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.68	0.68	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.1	1.1	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.40	0.40	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.32	0.32	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.16	0.16	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.47	0.47	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.27	0.27	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
67-66-3	<b>Chloroform</b>	<b>1.0</b>		ug/m <sup>3</sup>	0.50	0.50	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.21	0.21	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>200</b>		ug/m <sup>3</sup>	7.6	7.6	19.16	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/10/2016 11:37	08/10/2016 12:14	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.46	0.46	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.35	0.35	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	0.87	0.87	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.8</b>		ug/m <sup>3</sup>	0.51	0.51	1.022	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 21:08	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	0.74	0.74	1.022	EPA TO-15 Certifications:	08/09/2016 11:25	08/09/2016 21:08	LDS



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16H0373-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16H0373

7538 MRNY

Air

August 5, 2016 1:45 pm

08/08/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
100-41-4	<b>Ethyl Benzene</b>	<b>0.44</b>		ug/m <sup>3</sup>	0.44	0.44	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.1	1.1	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.50	0.50	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.42	0.42	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.37	0.37	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
75-09-2	<b>Methylene chloride</b>	<b>4.3</b>		ug/m <sup>3</sup>	0.71	0.71	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.42	0.42	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
110-54-3	<b>n-Hexane</b>	<b>9.7</b>		ug/m <sup>3</sup>	0.36	0.36	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
95-47-6	<b>o-Xylene</b>	<b>0.98</b>		ug/m <sup>3</sup>	0.44	0.44	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>2.7</b>		ug/m <sup>3</sup>	0.89	0.89	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
622-96-8	<b>* p-Ethyltoluene</b>	<b>2.2</b>		ug/m <sup>3</sup>	0.50	0.50	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
115-07-1	<b>* Propylene</b>	<b>0.60</b>		ug/m <sup>3</sup>	0.18	0.18	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.44	0.44	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
127-18-4	<b>Tetrachloroethylene</b>	<b>2400</b>		ug/m <sup>3</sup>	3.2	3.2	19.16	EPA TO-15	08/10/2016 11:37	08/10/2016 12:14	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
109-99-9	<b>* Tetrahydrofuran</b>	<b>6.9</b>		ug/m <sup>3</sup>	0.60	0.60	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
108-88-3	<b>Toluene</b>	<b>1.2</b>		ug/m <sup>3</sup>	0.39	0.39	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>3.1</b>		ug/m <sup>3</sup>	0.41	0.41	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.46	0.46	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
79-01-6	<b>Trichloroethylene</b>	<b>400</b>		ug/m <sup>3</sup>	2.6	2.6	19.16	EPA TO-15	08/10/2016 11:37	08/10/2016 12:14	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>1.3</b>		ug/m <sup>3</sup>	0.57	0.57	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.36	0.36	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.45	0.45	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			
75-01-4	<b>Vinyl Chloride</b>	<b>2.9</b>		ug/m <sup>3</sup>	0.26	0.26	1.022	EPA TO-15	08/09/2016 11:25	08/09/2016 21:08	LDS	
								Certifications:	NELAC-NY10854,NJDEP			



### Sample Information

<b>Client Sample ID:</b> 7538-INF				<b>York Sample ID:</b> 16H0373-01
<u>York Project (SDG) No.</u> 16H0373	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Air	<u>Collection Date/Time</u> August 5, 2016 1:45 pm	<u>Date Received</u> 08/08/2016

### Sample Information

<b>Client Sample ID:</b> 7538-EFF				<b>York Sample ID:</b> 16H0373-02
<u>York Project (SDG) No.</u> 16H0373	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Air	<u>Collection Date/Time</u> August 5, 2016 2:00 pm	<u>Date Received</u> 08/08/2016

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1.011	EPA TO-15 Certifications:	08/09/2016 11:25	08/09/2016 22:09	LDS
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>1.3</b>		ug/m <sup>3</sup>	0.55	0.55	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.69	0.69	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
76-13-1	<b>1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)</b>	<b>1.0</b>		ug/m <sup>3</sup>	0.77	0.77	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.55	0.55	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.41	0.41	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.75	0.75	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>0.50</b>		ug/m <sup>3</sup>	0.50	0.50	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	0.78	0.78	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.61	0.61	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.41	0.41	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.47	0.47	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.71	0.71	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	0.50	0.50	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.67	0.67	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.61	0.61	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.47	0.47	1.011	EPA TO-15 Certifications:	08/09/2016 11:25	08/09/2016 22:09	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16H0373-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16H0373

7538 MRNY

Air

August 5, 2016 2:00 pm

08/08/2016

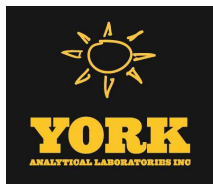
**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
					LOD/MDL	LOQ					
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.61	0.61	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.73	0.73	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
78-93-3	<b>2-Butanone</b>	<b>1.2</b>		ug/m <sup>3</sup>	0.30	0.30	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	0.83	0.83	1.011	EPA TO-15 Certifications:	08/09/2016 11:25	08/09/2016 22:09	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	1.6	1.6	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.41	0.41	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
67-64-1	<b>Acetone</b>	<b>22</b>		ug/m <sup>3</sup>	0.48	0.48	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.22	0.22	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
71-43-2	<b>Benzene</b>	<b>0.32</b>		ug/m <sup>3</sup>	0.32	0.32	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.52	0.52	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.68	0.68	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	1.0	1.0	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.39	0.39	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.31	0.31	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.83</b>		ug/m <sup>3</sup>	0.16	0.16	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.47	0.47	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.27	0.27	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
67-66-3	<b>Chloroform</b>	<b>6.8</b>		ug/m <sup>3</sup>	0.49	0.49	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
74-87-3	<b>Chloromethane</b>	<b>1.8</b>		ug/m <sup>3</sup>	0.21	0.21	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>7.1</b>		ug/m <sup>3</sup>	0.40	0.40	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.46	0.46	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.35	0.35	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16H0373-02

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

16H0373

7538 MRNY

Air

August 5, 2016 2:00 pm

08/08/2016

**Volatile Organics, EPA TO15 Full List**

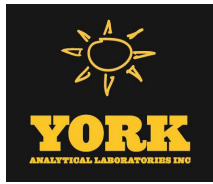
**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	0.86	0.86	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
75-71-8	Dichlorodifluoromethane	3.4		ug/m <sup>3</sup>	0.50	0.50	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
141-78-6	* Ethyl acetate	0.87		ug/m <sup>3</sup>	0.73	0.73	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	0.44	0.44	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	1.1	1.1	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.50	0.50	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.41	0.41	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.36	0.36	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
75-09-2	Methylene chloride	47		ug/m <sup>3</sup>	0.70	0.70	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.41	0.41	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
110-54-3	n-Hexane	90		ug/m <sup>3</sup>	0.36	0.36	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	0.44	0.44	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
179601-23-1	p- & m- Xylenes	0.97		ug/m <sup>3</sup>	0.88	0.88	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	0.50	0.50	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	0.17	0.17	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.43	0.43	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
127-18-4	Tetrachloroethylene	4.5		ug/m <sup>3</sup>	0.17	0.17	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.60	0.60	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
108-88-3	Toluene	0.80		ug/m <sup>3</sup>	0.38	0.38	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.40	0.40	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.46	0.46	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
79-01-6	Trichloroethylene	1.2		ug/m <sup>3</sup>	0.14	0.14	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	4.4		ug/m <sup>3</sup>	0.57	0.57	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS





**Sample Information**

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16H0373-02

York Project (SDG) No.  
16H0373

Client Project ID  
7538 MRNY

Matrix  
Air

Collection Date/Time  
August 5, 2016 2:00 pm

Date Received  
08/08/2016

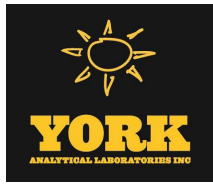
**Volatile Organics, EPA TO15 Full List**

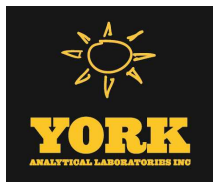
**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.36	0.36	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS	
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.44	0.44	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS	
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.26	0.26	1.011	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	08/09/2016 11:25	08/09/2016 22:09	LDS	





## Notes and Definitions

QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

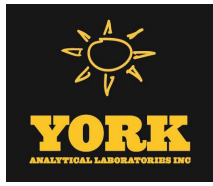
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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# Field Chain-of-Custody Record - AIR

Page      of       
 York Project No. 16H0373

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

<b>YOUR INFORMATION</b> Company: <u>Advanced Cleanup Tech</u> Address: <u>110 Main St</u> <u>Port Washington NY</u> Phone No: <u>516-441-5800</u> Contact Person: <u>Timothy Young</u> E-Mail Address: <u>timy@act.earth</u>		<b>Report To:</b> Company: <u>SA M C</u> Address: <u>SA M C</u> Phone No: <u>    </u> Attention: <u>MARINA SHAPIRO</u> E-Mail Address: <u>Marina.S@act.earth</u>		<b>Invoice To:</b> Company: <u>SA M C</u> Address: <u>SA M C</u> Phone No: <u>    </u> Attention: <u>KAREN K</u> E-Mail Address: <u>KarenK@act.earth</u>		<b>YOUR PROJECT ID</b> <u>7538 MRNH</u> <b>Purchase Order No.</b> <u>    </u> Samples from: CT <u>    </u> NY <u>    </u> NJ <u>    </u>		<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> <b>Standard(5-7 Days)</b> <input checked="" type="checkbox"/>		<b>Report Type/Deliverables</b> Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B/CLP Pkg <input type="checkbox"/> NJDEP Reduced <input type="checkbox"/> <i>Electronic Deliverables:</i> EDD (Specify Type) <input type="checkbox"/> Standard Excel <input type="checkbox"/> Regulatory Comparison Excel <input type="checkbox"/>	
--	--	---	--	---	--	--	--	--	--	---	--

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

**Air Matrix Codes**  
 AI- INDOOR Ambient Air  
 AO- OUTDOOR Amb. Air  
 AE- Vapor Extraction Well/  
 Process Gas/Effluent  
 AS- SOIL Vapor/Sub-Slab

Samples Collected/Authorized By (Signature)  
Bobby Stranick  
 Name (printed)

**Please enter the following Field Data**

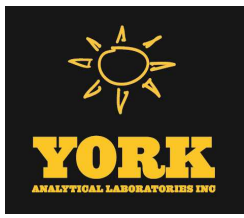
Detection Limits Required  
 < 1 ug/m<sup>3</sup>  
 NYSDEC VI Limits  
 (VI = vapor intrusion)  
 NJDEP low level  
 Routine Survey  
 Other

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont. ID	ANALYSES REQUESTED	Sampling Media
7538-INF	8/5	1345	-30	-4	15613	X	T0-15	6 Liter canister Tedlar Bag
7538-EFF	8/5	1400	-30	-4	15608	X	T0-15	6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag

Comments

Samples Relinquished By      8/8/16 1045am Date/Time  
 Samples Received By      8/8/16 1859 Date/Time

Samples Relinquished By      Date/Time  
 Samples Received in LAB by      Date/Time



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 09/19/2016  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 16I0341

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 09/19/2016  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 16I0341

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 12, 2016 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16I0341-01	7538-INF	Vapor Extraction	09/09/2016	09/12/2016
16I0341-02	7538-EFF	Vapor Extraction	09/09/2016	09/12/2016

## General Notes for York Project (SDG) No.: 16I0341

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 09/19/2016





### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 1610341-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1610341

7538-MRNY

Vapor Extraction

September 9, 2016 3:00 pm

09/12/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	25		ug/m <sup>3</sup>	15	15	21.45	EPA TO-15 Certifications:	09/13/2016 19:30	09/13/2016 19:30	LDS
71-55-6	1,1,1-Trichloroethane	19		ug/m <sup>3</sup>	12	12	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
79-34-5	1,1,2,2-Tetrachloroethane	47		ug/m <sup>3</sup>	15	15	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	25		ug/m <sup>3</sup>	16	16	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
79-00-5	1,1,2-Trichloroethane	23		ug/m <sup>3</sup>	12	12	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
75-34-3	1,1-Dichloroethane	14		ug/m <sup>3</sup>	8.7	8.7	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
75-35-4	1,1-Dichloroethylene	14		ug/m <sup>3</sup>	8.5	8.5	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
120-82-1	1,2,4-Trichlorobenzene	83		ug/m <sup>3</sup>	16	16	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
95-63-6	1,2,4-Trimethylbenzene	37		ug/m <sup>3</sup>	11	11	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
106-93-4	1,2-Dibromoethane	35		ug/m <sup>3</sup>	16	16	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
95-50-1	1,2-Dichlorobenzene	50		ug/m <sup>3</sup>	13	13	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
107-06-2	1,2-Dichloroethane	16		ug/m <sup>3</sup>	8.7	8.7	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
78-87-5	1,2-Dichloropropane	18		ug/m <sup>3</sup>	9.9	9.9	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	27		ug/m <sup>3</sup>	15	15	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
108-67-8	1,3,5-Trimethylbenzene	30		ug/m <sup>3</sup>	11	11	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	14	14	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
541-73-1	1,3-Dichlorobenzene	41		ug/m <sup>3</sup>	13	13	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
142-28-9	* 1,3-Dichloropropane	20		ug/m <sup>3</sup>	9.9	9.9	21.45	EPA TO-15 Certifications:	09/13/2016 19:30	09/13/2016 19:30	LDS
106-46-7	1,4-Dichlorobenzene	43		ug/m <sup>3</sup>	13	13	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	15	15	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
78-93-3	2-Butanone	16		ug/m <sup>3</sup>	6.3	6.3	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
591-78-6	* 2-Hexanone	54		ug/m <sup>3</sup>	18	18	21.45	EPA TO-15 Certifications:	09/13/2016 19:30	09/13/2016 19:30	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	34	34	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS





### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 1610341-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

1610341

7538-MRNY

Vapor Extraction

September 9, 2016 3:00 pm

09/12/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>31</b>		ug/m <sup>3</sup>	8.8	8.8	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
67-64-1	<b>Acetone</b>	<b>16</b>		ug/m <sup>3</sup>	10	10	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
107-13-1	<b>Acrylonitrile</b>	<b>10</b>		ug/m <sup>3</sup>	4.7	4.7	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
71-43-2	<b>Benzene</b>	<b>12</b>		ug/m <sup>3</sup>	6.9	6.9	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	11	11	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
75-27-4	<b>Bromodichloromethane</b>	<b>23</b>		ug/m <sup>3</sup>	14	14	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
75-25-2	<b>Bromoform</b>	<b>40</b>		ug/m <sup>3</sup>	22	22	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	8.3	8.3	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
75-15-0	<b>Carbon disulfide</b>	<b>11</b>		ug/m <sup>3</sup>	6.7	6.7	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>19</b>		ug/m <sup>3</sup>	3.4	3.4	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
108-90-7	<b>Chlorobenzene</b>	<b>21</b>		ug/m <sup>3</sup>	9.9	9.9	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.7	5.7	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
67-66-3	<b>Chloroform</b>	<b>18</b>		ug/m <sup>3</sup>	10	10	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	4.4	4.4	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>180</b>		ug/m <sup>3</sup>	8.5	8.5	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
10061-01-5	<b>cis-1,3-Dichloropropylene</b>	<b>18</b>		ug/m <sup>3</sup>	9.7	9.7	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
110-82-7	<b>Cyclohexane</b>	<b>12</b>		ug/m <sup>3</sup>	7.4	7.4	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
124-48-1	<b>Dibromochloromethane</b>	<b>37</b>		ug/m <sup>3</sup>	18	18	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>22</b>		ug/m <sup>3</sup>	11	11	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	15	15	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>20</b>		ug/m <sup>3</sup>	9.3	9.3	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
87-68-3	<b>Hexachlorobutadiene</b>	<b>130</b>		ug/m <sup>3</sup>	23	23	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	11	11	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16I0341-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16I0341

7538-MRNY

Vapor Extraction

September 9, 2016 3:00 pm

09/12/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ						
80-62-6	Methyl Methacrylate	19		ug/m <sup>3</sup>	8.8	8.8	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
1634-04-4	Methyl tert-butyl ether (MTBE)	13		ug/m <sup>3</sup>	7.7	7.7	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	15	15	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
142-82-5	n-Heptane	16		ug/m <sup>3</sup>	8.8	8.8	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
110-54-3	n-Hexane	12		ug/m <sup>3</sup>	7.6	7.6	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
95-47-6	o-Xylene	22		ug/m <sup>3</sup>	9.3	9.3	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
179601-23-1	p- & m- Xylenes	47		ug/m <sup>3</sup>	19	19	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
622-96-8	* p-Ethyltoluene	32		ug/m <sup>3</sup>	11	11	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
115-07-1	* Propylene	7.4		ug/m <sup>3</sup>	3.7	3.7	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
100-42-5	Styrene	22		ug/m <sup>3</sup>	9.1	9.1	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
127-18-4	Tetrachloroethylene	3800		ug/m <sup>3</sup>	3.6	3.6	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	13	13	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
108-88-3	Toluene	15		ug/m <sup>3</sup>	8.1	8.1	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
156-60-5	trans-1,2-Dichloroethylene	17		ug/m <sup>3</sup>	8.5	8.5	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
10061-02-6	trans-1,3-Dichloropropylene	18		ug/m <sup>3</sup>	9.7	9.7	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
79-01-6	Trichloroethylene	310		ug/m <sup>3</sup>	2.9	2.9	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
75-69-4	Trichlorofluoromethane (Freon 11)	19		ug/m <sup>3</sup>	12	12	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	7.6	7.6	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
593-60-2	Vinyl bromide	14		ug/m <sup>3</sup>	9.4	9.4	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
75-01-4	Vinyl Chloride	9.9		ug/m <sup>3</sup>	5.5	5.5	21.45	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 19:30	09/13/2016 19:30	LDS	
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>								
460-00-4	Surrogate: p-Bromofluorobenzene	104 %		72-118								



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 1610341-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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1610341

7538-MRNY

Vapor Extraction

September 9, 2016 3:00 pm

09/12/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	18.95	EPA TO-15 Certifications:	09/13/2016 20:18	09/13/2016 20:18	LDS
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>18</b>		ug/m <sup>3</sup>	10	10	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	15	15	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	10	10	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.7	7.7	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	7.5	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	14	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>11</b>		ug/m <sup>3</sup>	9.3	9.3	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	15	15	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.7	7.7	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.8	8.8	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	13	13	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.3	9.3	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	13	13	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	8.8	8.8	18.95	EPA TO-15 Certifications:	09/13/2016 20:18	09/13/2016 20:18	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	14	14	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.6	5.6	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	16	16	18.95	EPA TO-15 Certifications:	09/13/2016 20:18	09/13/2016 20:18	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 1610341-02

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1610341

7538-MRNY

Vapor Extraction

September 9, 2016 3:00 pm

09/12/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	30	30	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.8	7.8	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
67-64-1	<b>Acetone</b>	<b>18</b>		ug/m <sup>3</sup>	9.0	9.0	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.1	4.1	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.1	6.1	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	9.8	9.8	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	13	13	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	20	20	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.4	7.4	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.9	5.9	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.0	3.0	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.7	8.7	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.0	5.0	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.3	9.3	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.9	3.9	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>150</b>		ug/m <sup>3</sup>	7.5	7.5	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.6	8.6	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.5	6.5	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	16	16	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.4	9.4	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	14	14	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.2	8.2	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 1610341-02

York Project (SDG) No.

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Matrix

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1610341

7538-MRNY

Vapor Extraction

September 9, 2016 3:00 pm

09/12/2016

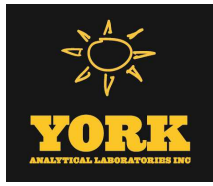
**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	20	20	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.3	9.3	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.8	7.8	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.8	6.8	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	13	13	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.8	7.8	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.7	6.7	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.2	8.2	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	16	16	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.3	9.3	18.95	EPA TO-15 Certifications:	09/13/2016 20:18	09/13/2016 20:18	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.3	3.3	18.95	EPA TO-15 Certifications:	09/13/2016 20:18	09/13/2016 20:18	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.1	8.1	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>28</b>		ug/m <sup>3</sup>	3.2	3.2	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	11	11	18.95	EPA TO-15 Certifications:	09/13/2016 20:18	09/13/2016 20:18	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	7.1	7.1	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	7.5	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.6	8.6	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	2.5	2.5	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	11	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.7	6.7	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.3	8.3	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.8	4.8	18.95	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	09/13/2016 20:18	09/13/2016 20:18	LDS



**Sample Information**

**Client Sample ID:** 7538-EFF

**York Sample ID:** 1610341-02

York Project (SDG) No.  
1610341

Client Project ID  
7538-MRNY

Matrix  
Vapor Extraction

Collection Date/Time  
September 9, 2016 3:00 pm

Date Received  
09/12/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	<b>Surrogate Recoveries</b>	<b>Result</b>									
460-00-4	Surrogate: p-Bromofluorobenzene	103 %				72-118					



## Notes and Definitions

- QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
- CCV-A The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

- 
- \* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

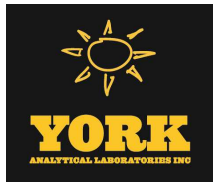
If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.







**YORK**  
ANALYTICAL LABORATORIES INC.

# Field Chain-of-Custody Record - AIR

Page      of     

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 1610341

<b>YOUR Information</b> Company: <u>Advances Cleanup Tech</u> Address: <u>110 Main St.</u> <u>Port Washington, NY</u> Phone No. <u>516-441-5300</u> Contact Person: <u>Maria Shepirc</u> <u>MARRAS@ACT-earth</u> E-Mail Address:	<b>Report To:</b> Company: <u>ACT</u> Address: <u>SAME</u> Phone No.: Attention: <u>SAME</u> E-Mail Address:	<b>Invoice To:</b> Company: Address: Phone No.: Attention: <u>Karen Friedman</u> <u>Kumf@act-earth</u> E-Mail Address:	<b>YOUR Project ID</b> <u>7538-MRNY</u>  <b>Purchase Order No.</b>  Samples from: CT <u>  </u> NY <u>X</u> NJ <u>  </u> <b>Standard(5-7 Days)</b> <input checked="" type="checkbox"/>	<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> <b>Detection Limits Required</b> <u>≤ 1 ug/m<sup>3</sup></u> <u>NYSDEC VI Limits</u> <u>(VI - vapor formation)</u> <u>NJDEP low level</u> <u>Routine Survey</u> <u>Other</u>	<b>Report Type/Deliverables</b> Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B/CLP Pkg <input type="checkbox"/> NJDEP Reduced <input type="checkbox"/> <i>Electronic Deliverables:</i> EDD (Specify Type) <input type="checkbox"/> Standard Excel <input type="checkbox"/> Regulatory Comparison Excel <input type="checkbox"/> <b>Special Instructions</b>
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**Additional Notes:**  
Please enter the following Field Data

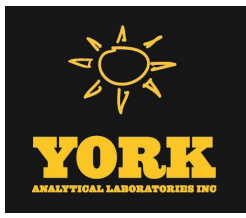
**Air Matrix Codes**  
AI - INDOOR Ambient Air  
AO - OUTDOOR Amb. Air  
AE - Vapor Extraction Well/  
Process Gas/Effluent  
AS - SOIL Vapor/Sub-Slab

Samples Collected/Authorized By (Signature)  
Tim Yang  
Name (printed)

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont. ID	ANALYSES REQUESTED	Sampling Media
7538-1AF	9/9/16	AE	-30	-4	17346	X	T0-15	6 Liter canister Tedlar Bag <input checked="" type="checkbox"/>
7538-EFF	"	AE	-30	-4	15524	X	"	6 Liter canister Tedlar Bag <input checked="" type="checkbox"/>
								6 Liter canister Tedlar Bag
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								6 Liter canister Tedlar Bag

**Comments**

Samples Relinquished By Tim Yang Date/Time 9/12/16 9AM  
Samples Received By K.S. Barber Date/Time 9/12/16 1825  
Samples Relinquished By    Date/Time     
Samples Received in LAB by    Date/Time



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 10/13/2016  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 16J0171

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/13/2016  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 16J0171

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 06, 2016 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16J0171-01	MW-1D	Water	10/03/2016	10/06/2016
16J0171-02	MW-1S	Water	10/03/2016	10/06/2016

## General Notes for York Project (SDG) No.: 16J0171

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 10/13/2016





### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 16J0171-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
16J0171	7538-MRNY	Water	October 3, 2016 11:55 am	10/06/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
75-35-4	<b>1,1-Dichloroethylene</b>	<b>9.3</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 16J0171-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16J0171

7538-MRNY

Water

October 3, 2016 11:55 am

10/06/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
107-02-8	Acrolein	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
107-13-1	Acrylonitrile	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
108-90-7	<b>Chlorobenzene</b>	<b>0.66</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>1900</b>		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/12/2016 13:10	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 16J0171-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16J0171

7538-MRNY

Water

October 3, 2016 11:55 am

10/06/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/11/2016 08:30	10/11/2016 18:27	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/11/2016 08:30	10/11/2016 18:27	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.80	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
127-18-4	<b>Tetrachloroethylene</b>	<b>2200</b>		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/12/2016 13:10	SS
108-88-3	<b>Toluene</b>	<b>0.72</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>80</b>		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/12/2016 13:10	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK
79-01-6	<b>Trichloroethylene</b>	<b>7400</b>		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/12/2016 13:10	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/11/2016 08:30	10/11/2016 18:27	BK



Sample Information

Client Sample ID: MW-1D

York Sample ID: 16J0171-01

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 16J0171, 7538-MRNY, Water, October 3, 2016 11:55 am, 10/06/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Main data table for Sample 16J0171-01 with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for Vinyl Chloride, Xylenes, and Surrogate Recoveries.

Sample Information

Client Sample ID: MW-1S

York Sample ID: 16J0171-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 16J0171, 7538-MRNY, Water, October 3, 2016 2:00 pm, 10/06/2016

Volatile Organics, NJDEP/TCL/Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Main data table for Sample 16J0171-02 with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for various chlorinated hydrocarbons.



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 16J0171-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16J0171

7538-MRNY

Water

October 3, 2016 2:00 pm

10/06/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
78-93-3	2-Butanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
67-64-1	<b>Acetone</b>	<b>1.2</b>	<b>J</b>	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS





### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 16J0171-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16J0171

7538-MRNY

Water

October 3, 2016 2:00 pm

10/06/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>2.9</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/12/2016 08:00	10/12/2016 13:50	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/12/2016 08:00	10/12/2016 13:50	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 16J0171-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16J0171

7538-MRNY

Water

October 3, 2016 2:00 pm

10/06/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>12</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
79-01-6	<b>Trichloroethylene</b>	<b>4.0</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	10/12/2016 08:00	10/12/2016 13:50	SS

**Surrogate Recoveries**

**Result**

**Acceptance Range**

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	96.2 %	69-130
2037-26-5	Surrogate: Toluene-d8	94.3 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	97.1 %	79-122



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
16J0171-01	MW-1D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16J0171-02	MW-1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Notes and Definitions

- QR-04 The RPD exceeded control limits for the LCS/LCSD QC.
- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

- 
- \* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

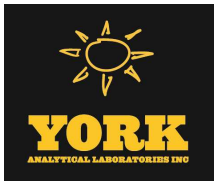
If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.





YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

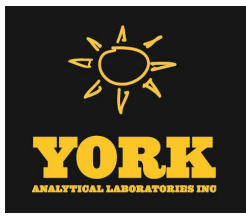
# Field Chain-of-Custody Record

Page      of     

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 16J0171

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
Company: <u>Advanced Clay Tech</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	Company: <u>ACT</u>	RUSH - Same Day <input type="checkbox"/>	RUSH - Next Day <input type="checkbox"/>	Summary Report <input checked="" type="checkbox"/>	Summary w/ QA Summary <input type="checkbox"/>
Address: <u>110 Main St.</u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	Address: <u>    </u>	RUSH - Two Day <input type="checkbox"/>	RUSH - Three Day <input type="checkbox"/>	CT RCP Package <input type="checkbox"/>	CT RCP Package <input type="checkbox"/>
Phone No.: <u>516-441-5800</u>	Phone No.: <u>    </u>	Phone No.: <u>    </u>	Phone No.: <u>    </u>	Phone No.: <u>    </u>	Phone No.: <u>    </u>	Phone No.: <u>    </u>	Phone No.: <u>    </u>	RUSH - Four Day <input type="checkbox"/>	Standard(5-7 Days) <input checked="" type="checkbox"/>	CTRCP DQA/DUE Pkg <input type="checkbox"/>	CTRCP DQA/DUE Pkg <input type="checkbox"/>
Contact Person: <u>Tim Young</u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	Contact Person: <u>    </u>	NY ASP A Package <input type="checkbox"/>	NY ASP B Package <input type="checkbox"/>	NY ASP A Package <input type="checkbox"/>	NY ASP B Package <input type="checkbox"/>
E-Mail Address: <u>timy@act.earth</u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	E-Mail Address: <u>    </u>	NJDEP Red. Deliv. <input type="checkbox"/>	Electronic Data Deliverables (EDD) <input type="checkbox"/>	NJDEP Red. Deliv. <input type="checkbox"/>	Electronic Data Deliverables (EDD) <input type="checkbox"/>
<p><b>Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.</b></p>											
Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Attention: <u>Karen Friedman</u> <u>Karen@act.earth</u> E-Mail Address:		Attention: <u>    </u> <u>    </u> E-Mail Address:		Attention: <u>    </u> <u>    </u> E-Mail Address:		Attention: <u>    </u> <u>    </u> E-Mail Address:		Attention: <u>    </u> <u>    </u> E-Mail Address:	
Samples Collected/Authorized By (Signature) <u>Tim Young</u> Name (printed)		Samples Relinquished By <u>    </u> Date/Time		Samples Relinquished By <u>    </u> Date/Time		Samples Relinquished By <u>    </u> Date/Time		Samples Relinquished By <u>    </u> Date/Time		Samples Relinquished By <u>    </u> Date/Time	
Sample Identification <u>MW-1D</u> <u>MW-1s</u>		Date/Time Sampled <u>10/3 1155</u> <u>10/3 1400</u>		Sample Matrix <u>GW</u> <u>GW</u>		Choose Analyses Needed from the Menu Above and Enter Below <u>VOC's</u> <u>VOC's</u>		Container Description(s) <u>3 VOC's</u> <u>"</u>		Temperature on Receipt <u>5.0</u> <u>2.3 °C</u>	



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Marina Shapiro**

Report Date: 10/12/2016  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 16J0175

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/12/2016  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 16J0175

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Marina Shapiro

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 06, 2016 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16J0175-01	7538-INF	Vapor Extraction	10/03/2016	10/06/2016
16J0175-02	7538-EFF	Vapor Extraction	10/03/2016	10/06/2016

## General Notes for York Project (SDG) No.: 16J0175

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 10/12/2016







### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16J0175-01

York Project (SDG) No.  
16J0175

Client Project ID  
7538-MRNY

Matrix  
Vapor Extraction

Collection Date/Time  
October 3, 2016 3:00 pm

Date Received  
10/06/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	19.38	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 15:35	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	15	15	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	11	11	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.8	7.8	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.7	7.7	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	14	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.5	9.5	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	15	15	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.8	7.8	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	9.0	9.0	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	14	14	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.5	9.5	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	13	13	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	9.0	9.0	19.38	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 15:35	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	12	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	14	14	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.7	5.7	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16J0175-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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16J0175

7538-MRNY

Vapor Extraction

October 3, 2016 3:00 pm

10/06/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	16	16	19.38	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 15:35	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	30	30	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.9	7.9	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
67-64-1	<b>Acetone</b>	<b>12</b>		ug/m <sup>3</sup>	9.2	9.2	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.2	4.2	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.2	6.2	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	10	10	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	13	13	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	20	20	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.5	7.5	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	6.0	6.0	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.0	3.0	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.9	8.9	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.1	5.1	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.5	9.5	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	4.0	4.0	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>110</b>		ug/m <sup>3</sup>	7.7	7.7	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.8	8.8	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.7	6.7	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	17	17	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.6	9.6	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	14	14	19.38	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 15:35	LDS



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7538-MRNY

Vapor Extraction

October 3, 2016 3:00 pm

10/06/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.4	8.4	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	21	21	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.5	9.5	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.9	7.9	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	7.0	7.0	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	13	13	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.9	7.9	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.8	6.8	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.4	8.4	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	17	17	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.5	9.5	19.38	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 15:35	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.3	3.3	19.38	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 15:35	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.3	8.3	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>1100</b>		ug/m <sup>3</sup>	3.3	3.3	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	11	11	19.38	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 15:35	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	7.3	7.3	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.7	7.7	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.8	8.8	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
79-01-6	<b>Trichloroethylene</b>	<b>180</b>		ug/m <sup>3</sup>	2.6	2.6	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	11	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.8	6.8	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.5	8.5	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS



### Sample Information

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7538-MRNY

Vapor Extraction

October 3, 2016 3:00 pm

10/06/2016

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	5.0	5.0	19.38	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 15:35	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
460-00-4	Surrogate: p-Bromofluorobenzene	101 %			72-118						

### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16J0175-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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16J0175

7538-MRNY

Vapor Extraction

October 3, 2016 3:00 pm

10/06/2016

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	18.39	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 16:26	LDS
71-55-6	1,1,1-Trichloroethane	37		ug/m <sup>3</sup>	10	10	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	14	14	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	10	10	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.4	7.4	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.3	7.3	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	14	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.0	9.0	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	14	14	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.4	7.4	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.5	8.5	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16J0175-02

York Project (SDG) No.

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Vapor Extraction

October 3, 2016 3:00 pm

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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	13	13	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.0	9.0	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	12	12	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	8.5	8.5	18.39	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 16:26	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	13	13	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.4	5.4	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	15	15	18.39	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 16:26	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	29	29	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.5	7.5	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
67-64-1	<b>Acetone</b>	<b>12</b>		ug/m <sup>3</sup>	8.7	8.7	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.0	4.0	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	5.9	5.9	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	9.5	9.5	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	12	12	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	19	19	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.1	7.1	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.7	5.7	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	2.9	2.9	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.5	8.5	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	4.9	4.9	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16J0175-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16J0175

7538-MRNY

Vapor Extraction

October 3, 2016 3:00 pm

10/06/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.0	9.0	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.8	3.8	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>120</b>		ug/m <sup>3</sup>	7.3	7.3	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.3	8.3	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.3	6.3	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	16	16	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.1	9.1	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	13	13	18.39	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 16:26	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.0	8.0	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	20	20	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.0	9.0	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.5	7.5	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.6	6.6	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	13	13	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.5	7.5	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
110-54-3	<b>n-Hexane</b>	<b>7.8</b>		ug/m <sup>3</sup>	6.5	6.5	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.0	8.0	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	16	16	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.0	9.0	18.39	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 16:26	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.2	3.2	18.39	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 16:26	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	7.8	7.8	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>17</b>		ug/m <sup>3</sup>	3.1	3.1	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16J0175-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16J0175

7538-MRNY

Vapor Extraction

October 3, 2016 3:00 pm

10/06/2016

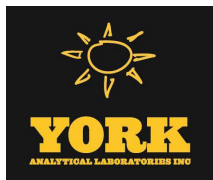
**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
						LOQ					
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	11	11	18.39	EPA TO-15 Certifications:	10/11/2016 14:49	10/11/2016 16:26	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	6.9	6.9	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.3	7.3	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.3	8.3	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	2.5	2.5	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	10	10	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.5	6.5	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.0	8.0	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.7	4.7	18.39	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/11/2016 14:49	10/11/2016 16:26	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	100 %	72-118								



## Notes and Definitions

- QCAL This analyte is outside calibration QC limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- CCV-A The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

- 
- \* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

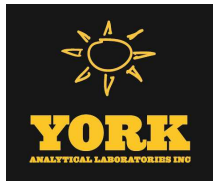
2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.







# Field Chain-of-Custody Record - AIR

Page      of     

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 16J0175

<b>YOUR Information</b> Company: <u>Advanced Chem Pro</u> Address: <u>110 Main St</u> <u>Port Washington, NY</u> Phone No. <u>516-471-5800</u> Contact Person: <u>Tim Young</u> <u>TimY@act-earth</u> E-Mail Address:	<b>Report To:</b> Company: <u>ACT</u> Address: Phone No. Attention: <u>Martin Shapiro</u> <u>Martines@act-earth</u> E-Mail Address:	<b>Invoice To:</b> Company: <u>ACT</u> Address: Phone No. Attention: <u>Karen Freeman</u> <u>KarriF@act-earth</u> E-Mail Address:	<b>YOUR Project ID</b> <u>7538-MRNY</u>  <b>Purchase Order No.</b>  Samples from: CT <u>NY</u> X NJ	<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> <b>Standard(5-7 Days) X</b>	<b>Report Type/Deliverables</b> Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary CT RCP Package NY ASP A Package NY ASP B/CLP Pkg NJDEP Reduced <i>Electronic Deliverables:</i> EDD (Specify Type) Standard Excel Regulatory Comparison Excel
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**Additional Notes:**

**Detection Limits Required**  
 ≤ 1 ug/m<sup>3</sup>  
 NYSDEC VI Limits  
 (VI paper inclusion)  
 NJDEP low level  
 Routine Survey  
 Other

**Special Instructions**

**Please enter the following Field Data**

Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont. ID
-30	-4	18303	N/A
-30	-4	16691	N/A

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont. ID	ANALYSES REQUESTED	Sampling Media
7538-INC	10/3/16	AE	-30	-4	18303	N/A	TO-15	6 Liter canister Tedlar Bag
7538-EFF	"	AE	-30	-4	16691	N/A	"	6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
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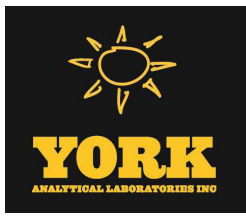
**Comments**  
NO FLOW REGULATORS

Samples Relinquished By [Signature] Date/Time 10/6/16 8:30 AM

Samples Received By [Signature] Date/Time 10/6/16 8:50 AM

Samples Relinquished By [Signature] Date/Time 10/6/16 19:22

Samples Received in LAB by [Signature] Date/Time 10/6/16 19:22



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Paul Stewart**

Report Date: 12/23/2016  
**Client Project ID: 7538 MRNY**  
York Project (SDG) No.: 16L0651

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
www.YORKLAB.com

STRATFORD, CT 06615  
(203) 325-1371

132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
ClientServices@yorklab.com

Report Date: 12/23/2016  
Client Project ID: 7538 MRNY  
York Project (SDG) No.: 16L0651

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Paul Stewart

---

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 15, 2016 and listed below. The project was identified as your project: **7538 MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16L0651-01	MW-3D	Water	12/14/2016	12/15/2016
16L0651-02	MW-2D	Water	12/14/2016	12/15/2016
16L0651-03	MW-2S	Water	12/14/2016	12/15/2016
16L0651-04	MW-1D	Water	12/14/2016	12/15/2016
16L0651-05	MW-1S	Water	12/14/2016	12/15/2016

## **General Notes for York Project (SDG) No.: 16L0651**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 12/23/2016





### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 16L0651-01

<u>York Project (SDG) No.</u> 16L0651	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 14, 2016 11:35 am	<u>Date Received</u> 12/15/2016
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 16L0651-01

York Project (SDG) No.

Client Project ID

Matrix

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16L0651

7538 MRNY

Water

December 14, 2016 11:35 am

12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>2.8</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 16L0651-01

York Project (SDG) No.

Client Project ID

Matrix

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16L0651

7538 MRNY

Water

December 14, 2016 11:35 am

12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	12/22/2016 07:37	12/22/2016 16:12	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	12/22/2016 07:37	12/22/2016 16:12	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS





### Sample Information

**Client Sample ID:** MW-3D

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Client Project ID

Matrix

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16L0651

7538 MRNY

Water

December 14, 2016 11:35 am

12/15/2016

#### Volatile Organics, NJDEP/TCL/Part 375 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	12/22/2016 07:37	12/22/2016 16:12	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %			69-130						
2037-26-5	Surrogate: Toluene-d8	105 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	109 %			79-122						

### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 16L0651-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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16L0651

7538 MRNY

Water

December 14, 2016 12:30 pm

12/15/2016

#### Volatile Organics, NJDEP/TCL/Part 375 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
75-35-4	<b>1,1-Dichloroethylene</b>	<b>0.90</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 16L0651-02

York Project (SDG) No.

Client Project ID

Matrix

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16L0651

7538 MRNY

Water

December 14, 2016 12:30 pm

12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 16L0651-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0651

7538 MRNY

Water

December 14, 2016 12:30 pm

12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>340</b>		ug/L	10	25	50	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/23/2016 10:20	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 16L0651-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0651

7538 MRNY

Water

December 14, 2016 12:30 pm

12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	12/22/2016 07:37	12/22/2016 16:37	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	12/22/2016 07:37	12/22/2016 16:37	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
75-65-0	<b>tert-Butyl alcohol (TBA)</b>	<b>0.52</b>	CCV-E , J	ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>0.48</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>21</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
79-01-6	<b>Trichloroethylene</b>	<b>5.6</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	12/22/2016 07:37	12/22/2016 16:37	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.8 %	69-130								
2037-26-5	Surrogate: Toluene-d8	107 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	108 %	79-122								



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 16L0651-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0651

7538 MRNY

Water

December 14, 2016 1:10 pm

12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 16L0651-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0651

7538 MRNY

Water

December 14, 2016 1:10 pm

12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 16L0651-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0651

7538 MRNY

Water

December 14, 2016 1:10 pm

12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	12/22/2016 07:37	12/22/2016 17:03	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	12/22/2016 07:37	12/22/2016 17:03	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>0.44</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 16L0651-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0651

7538 MRNY

Water

December 14, 2016 1:10 pm

12/15/2016

#### Volatile Organics, NJDEP/TCL/Part 375 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	12/22/2016 07:37	12/22/2016 17:03	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %			69-130						
2037-26-5	Surrogate: Toluene-d8	106 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	104 %			79-122						

### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 16L0651-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0651

7538 MRNY

Water

December 14, 2016 2:10 pm

12/15/2016

#### Volatile Organics, NJDEP/TCL/Part 375 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
75-35-4	<b>1,1-Dichloroethylene</b>	<b>5.6</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS





### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 16L0651-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0651

7538 MRNY

Water

December 14, 2016 2:10 pm

12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
95-50-1	<b>1,2-Dichlorobenzene</b>	<b>0.41</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
106-46-7	<b>1,4-Dichlorobenzene</b>	<b>0.24</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 16L0651-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0651

7538 MRNY

Water

December 14, 2016 2:10 pm

12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	0.77		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
108-90-7	Chlorobenzene	0.56		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
156-59-2	cis-1,2-Dichloroethylene	1200		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/23/2016 11:11	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	12/22/2016 07:37	12/22/2016 17:29	SS



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 16L0651-04

<u>York Project (SDG) No.</u> 16L0651	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 14, 2016 2:10 pm	<u>Date Received</u> 12/15/2016
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	12/22/2016 07:37	12/22/2016 17:29	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>1600</b>		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/23/2016 11:11	SS
108-88-3	<b>Toluene</b>	<b>0.43</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>110</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
79-01-6	<b>Trichloroethylene</b>	<b>6600</b>		ug/L	40	100	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/23/2016 11:11	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
75-01-4	<b>Vinyl Chloride</b>	<b>0.55</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	12/22/2016 07:37	12/22/2016 17:29	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %	69-130								
2037-26-5	Surrogate: Toluene-d8	99.0 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	109 %	79-122								

### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 16L0651-05

<u>York Project (SDG) No.</u> 16L0651	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 14, 2016 2:55 pm	<u>Date Received</u> 12/15/2016
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**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 16L0651-05

<u>York Project (SDG) No.</u> 16L0651	<u>Client Project ID</u> 7538 MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> December 14, 2016 2:55 pm	<u>Date Received</u> 12/15/2016
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Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 16L0651-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0651

7538 MRNY

Water

December 14, 2016 2:55 pm

12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>1.3</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 16L0651-05

York Project (SDG) No.

Client Project ID

Matrix

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16L0651

7538 MRNY

Water

December 14, 2016 2:55 pm

12/15/2016

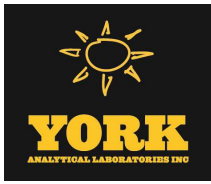
**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	12/23/2016 10:13	12/23/2016 10:45	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	12/23/2016 10:13	12/23/2016 10:45	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>6.2</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
79-01-6	<b>Trichloroethylene</b>	<b>2.6</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS



**Sample Information**

**Client Sample ID:** MW-1S

**York Sample ID:** 16L0651-05

York Project (SDG) No.  
16L0651

Client Project ID  
7538 MRNY

Matrix  
Water

Collection Date/Time  
December 14, 2016 2:55 pm

Date Received  
12/15/2016

**Volatile Organics, NJDEP/TCL/Part 375 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

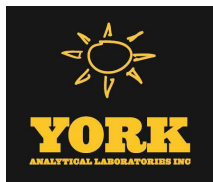
CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	12/23/2016 10:13	12/23/2016 10:45	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %			69-130						
2037-26-5	Surrogate: Toluene-d8	105 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	95.6 %			79-122						



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
16L0651-01	MW-3D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16L0651-02	MW-2D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16L0651-03	MW-2S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16L0651-04	MW-1D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16L0651-05	MW-1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C





## Notes and Definitions

- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
- CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
- B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

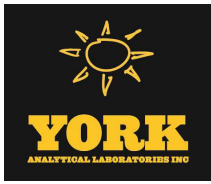
- 
- \* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.



Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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# Field Chain-of-Custody Record

Page      of     

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

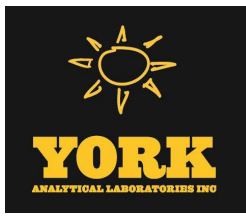
York Project No. 160651

<b>YOUR Information</b> Company: <u>ACT</u> Address: <u>110 Main Street, Stratford, CT 06615</u> Phone No.: <u>516 441 5800</u> Contact Person: <u>Mark Gelband</u> E-Mail Address: <u>mckg@actlab.com</u>		<b>Report To:</b> Company: <u>ACT</u> Address: <u>CPME</u> Phone No.: <u>Paul Sawick</u> Attention: <u>Paul Sawick</u> E-Mail Address: <u>psawick@actlab.com</u>		<b>Invoice To:</b> Company: <u>ACT</u> Address: <u>CPME</u> Phone No.: <u>Karen Hieban</u> Attention: <u>Karen Hieban</u> E-Mail Address: <u>karen@actlab.com</u>		<b>YOUR Project ID</b> <u>7538 MRJF</u> <b>Purchase Order No.</b> <u>    </u>		<b>Turn-Around Time</b> <input type="checkbox"/> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <b>Standard(5-7 Days)</b> <input checked="" type="checkbox"/>		<b>Report Type</b> <input type="checkbox"/> Summary Report <input type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CTRCP DOA/DUE Pkg <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NJDEP Red. Deliv. <u>Electronic Data Deliverables (EDD)</u> <input type="checkbox"/> Simple Excel <input type="checkbox"/> NY SDEC EQuIS <input type="checkbox"/> EQuIS (std) <input type="checkbox"/> EZ-EDD (EQuIS) <input type="checkbox"/> NJDEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other <input type="checkbox"/> York Regulatory Comparison <input type="checkbox"/> Excel Spreadsheet Compare to the following Regs. (please fill in):	
<b>Volatiles</b> 8260 full 624 STARS list BTEX MTBE TCL list TAGM list CT RCP list Arom. only Halog only App.IX list 8021B list		<b>Semi-Vols, Pests/Herb</b> 8082PCB 8081Pest 8151Herb CT RCP App. IX Site Spec. SLP or TCLP Total Dissolved SLP or TCLP Inerts/Metals LIST Below		<b>Metals</b> RCRA8 PP13 list TAL CT15 list TAGM list NJDEP list Air TO15 Air STARS Air VPH Air TICs Methane Helium		<b>Full Lists</b> Pri.Poll. TCL Organics TAL MetCN Full TCLP Full App. IX Part 360-Routine Part 360-Residue Part 360-Residual Part 360-Residual NYDEP Sewer TOC NY SDEC Sewer Silica		<b>Misc.</b> Corrosivity Reactivity Ignitability Flash Point Sieve Anal. Heterotrophs TOX BTU/lb. Aquatic Tox. NYDEP Sewer TOC NY SDEC Sewer Silica			

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Samples Collected/Authorized By (Signature)  
Alexandra Keenan  
Name (printed)  
Alexandra Keenan

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-3D	1135 12/14/16	GW	8260 full VOLS	3 vials
MW-2D	1230			
MW-2S	1310			
MW-1D	1410			
MW-1S	1455			
<b>Comments</b> 4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> <input type="checkbox"/> Other <input type="checkbox"/> Ascorbic Acid Samples Relinquished By <u>    </u> Date/Time <u>12/15/16 9:45</u> Samples Relinquished By <u>    </u> Date/Time <u>12-15-16 1806</u>				
Temperature on Receipt <u>2.2 °C</u>				



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Mark Gelband**

Report Date: 12/21/2016  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 16L0784

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
www.YORKLAB.com

STRATFORD, CT 06615  
(203) 325-1371

132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
ClientServices@yorklab.com

Report Date: 12/21/2016  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 16L0784

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Mark Gelband

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 19, 2016 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
16L0784-01	7538-INF	Soil Vapor	12/16/2016	12/19/2016
16L0784-02	7538-EFF	Soil Vapor	12/16/2016	12/19/2016

## **General Notes for York Project (SDG) No.: 16L0784**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 12/21/2016





### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16L0784-01

York Project (SDG) No.  
16L0784

Client Project ID  
7538-MRNY

Matrix  
Soil Vapor

Collection Date/Time  
December 16, 2016 3:00 pm

Date Received  
12/19/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications:	12/19/2016 12:35	12/20/2016 09:48	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	9.2	9.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	13	13	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	9.2	9.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	6.8	6.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	6.7	6.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	13	13	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	10	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	6.8	6.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	7.8	7.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	11	11	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	10	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	7.8	7.8	16.8	EPA TO-15 Certifications:	12/19/2016 12:35	12/20/2016 09:48	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	10	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.0	5.0	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16L0784-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0784

7538-MRNY

Soil Vapor

December 16, 2016 3:00 pm

12/19/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	14	14	16.8	EPA TO-15 Certifications:	12/19/2016 12:35	12/20/2016 09:48	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	26	26	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	6.9	6.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
67-64-1	Acetone	ND		ug/m <sup>3</sup>	8.0	8.0	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	3.6	3.6	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
71-43-2	<b>Benzene</b>	<b>6.4</b>		ug/m <sup>3</sup>	5.4	5.4	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	8.7	8.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	11	11	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	17	17	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	6.5	6.5	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.2	5.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>5.3</b>		ug/m <sup>3</sup>	2.6	2.6	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	7.7	7.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	4.4	4.4	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	8.2	8.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
74-87-3	<b>Chloromethane</b>	<b>3.5</b>		ug/m <sup>3</sup>	3.5	3.5	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>36</b>		ug/m <sup>3</sup>	6.7	6.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.6	7.6	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	5.8	5.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	14	14	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>9.1</b>		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications:	12/19/2016 12:35	12/20/2016 09:48	LDS





### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16L0784-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0784

7538-MRNY

Soil Vapor

December 16, 2016 3:00 pm

12/19/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	7.3	7.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	18	18	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	6.9	6.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.1	6.1	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	6.9	6.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	5.9	5.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	7.3	7.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	15	15	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
115-07-1	* Propylene	4.6		ug/m <sup>3</sup>	2.9	2.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	7.2	7.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>990</b>		ug/m <sup>3</sup>	2.8	2.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	9.9	9.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	6.3	6.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	6.7	6.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.6	7.6	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
79-01-6	<b>Trichloroethylene</b>	<b>79</b>		ug/m <sup>3</sup>	2.3	2.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	9.4	9.4	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	5.9	5.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	7.3	7.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS



### Sample Information

**Client Sample ID:** 7538-INF

**York Sample ID:** 16L0784-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0784

7538-MRNY

Soil Vapor

December 16, 2016 3:00 pm

12/19/2016

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.3	4.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 09:48	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
460-00-4	Surrogate: p-Bromofluorobenzene	95.8 %			72-118						

### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16L0784-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0784

7538-MRNY

Soil Vapor

December 16, 2016 3:00 pm

12/19/2016

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications:	12/19/2016 12:35	12/20/2016 10:35	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	9.2	9.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	13	13	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	9.2	9.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	6.8	6.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	6.7	6.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	13	13	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	10	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	6.8	6.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	7.8	7.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16L0784-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0784

7538-MRNY

Soil Vapor

December 16, 2016 3:00 pm

12/19/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	11	11	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	10	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	7.8	7.8	16.8	EPA TO-15 Certifications:	12/19/2016 12:35	12/20/2016 10:35	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	10	10	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.0	5.0	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	14	14	16.8	EPA TO-15 Certifications:	12/19/2016 12:35	12/20/2016 10:35	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	26	26	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	6.9	6.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
67-64-1	Acetone	ND		ug/m <sup>3</sup>	8.0	8.0	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	3.6	3.6	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	5.4	5.4	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	8.7	8.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	11	11	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	17	17	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	6.5	6.5	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.2	5.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	2.6	2.6	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	7.7	7.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16L0784-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0784

7538-MRNY

Soil Vapor

December 16, 2016 3:00 pm

12/19/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	4.4	4.4	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	8.2	8.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.5	3.5	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>23</b>		ug/m <sup>3</sup>	6.7	6.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.6	7.6	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	5.8	5.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	14	14	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications:	12/19/2016 12:35	12/20/2016 10:35	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	7.3	7.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	18	18	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	6.9	6.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.1	6.1	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	12	12	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	6.9	6.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	5.9	5.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	7.3	7.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	15	15	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	8.3	8.3	16.8	EPA TO-15 Certifications:	12/19/2016 12:35	12/20/2016 10:35	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	2.9	2.9	16.8	EPA TO-15 Certifications:	12/19/2016 12:35	12/20/2016 10:35	LDS



### Sample Information

**Client Sample ID:** 7538-EFF

**York Sample ID:** 16L0784-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

16L0784

7538-MRNY

Soil Vapor

December 16, 2016 3:00 pm

12/19/2016

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/m <sup>3</sup>	7.2	7.2	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>33</b>		ug/m <sup>3</sup>	2.8	2.8	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	9.9	9.9	16.8	EPA TO-15 Certifications:	12/19/2016 12:35	12/20/2016 10:35	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	6.3	6.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	6.7	6.7	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.6	7.6	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	2.3	2.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	9.4	9.4	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	5.9	5.9	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	7.3	7.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.3	4.3	16.8	EPA TO-15 Certifications: NELAC-NY10854,NJDEP,NELAC-NY10854-Que	12/19/2016 12:35	12/20/2016 10:35	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: p-Bromofluorobenzene	95.7 %	72-118								





## Notes and Definitions

CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.
<hr/>	
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



# Field Chain-of-Custody Record - AIR

Page      of     

York Project No. 1660784

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

<b>YOUR INFORMATION</b> Company: <u>Advanced Group Inc</u> Address: <u>110 Mt. St</u> Phone No.: <u>516-441-5800</u> Contact Person: <u>Tom Yang</u> E-Mail Address: <u>tom@act.com</u>		<b>Report To:</b> Company: <u>ACT</u> Address: <u>                    </u> Phone No.: <u>                    </u> Attention: <u>Mark G</u> E-Mail Address: <u>markg@act.com</u>		<b>Invoice To:</b> Company: <u>ACT</u> Address: <u>                    </u> Phone No.: <u>                    </u> Attention: <u>Karen Friedman</u> E-Mail Address: <u>Karen.F@act.com</u>		<b>YOUR PROJECT ID</b> <u>7538-MRNY</u> <b>Purchase Order No.</b> <u>                    </u> Samples from: CT <u>NY</u> <input checked="" type="checkbox"/> NJ		<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> <b>Standard(5-7 Days)</b> <input checked="" type="checkbox"/>		<b>Report Type/Deliverables</b> Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B/CLP Pkg <input type="checkbox"/> NJDEP Reduced <input type="checkbox"/> <i>Electronic Deliverables:</i> EDD (Specify Type) <input type="checkbox"/> Standard Excel <input type="checkbox"/> Regulatory Comparison Excel <input type="checkbox"/>	
--	--	--	--	---	--	---	--	--	--	---	--

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Samples Collected/Authorized By (Signature) [Signature]  
 Name (printed) Tom Yang

**Air Matrix Codes**  
 AI- INDOOR Ambient Air  
 AO- OUTDOOR Amb. Air  
 AE- Vapor Extraction Well/  
 Process Gas/Effluent  
 AS- SOIL Vapor/Sub-Slab

**Please enter the following Field Data**

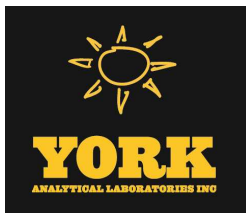
Detection Limits Required  
 ≤ 1 ug/m<sup>3</sup>  
 NYSDEC VI Limits  
 (VI-type instructions)  
 NJDEP low level                       
 Routine Survey                       
 Other                     

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
7538-INT	12/16	AS	-30	-4	15613	N/A	70-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
7538-EFF	11	AS	-30	-4	18213	N/A	70-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
								6 Liter canister <input type="checkbox"/> Tedlar Bag
								6 Liter canister <input type="checkbox"/> Tedlar Bag
								6 Liter canister <input type="checkbox"/> Tedlar Bag
								6 Liter canister <input type="checkbox"/> Tedlar Bag
								6 Liter canister <input type="checkbox"/> Tedlar Bag
								6 Liter canister <input type="checkbox"/> Tedlar Bag
								6 Liter canister <input type="checkbox"/> Tedlar Bag
								6 Liter canister <input type="checkbox"/> Tedlar Bag

**Comments** No Flow Regulators

Samples Relinquished By [Signature] Date/Time 12/16 1400  
 Samples Relinquished By JAMES GOMES Date/Time 12-16-16 15:10  
 Samples Received By [Signature] Date/Time 12-16-16 15:10  
 Samples Received in LAB by [Signature] Date/Time





# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Mark Gelband**

Report Date: 06/19/2017  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 17F0465

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
www.YORKLAB.com

STRATFORD, CT 06615  
(203) 325-1371

132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
ClientServices@yorklab.com

Report Date: 06/19/2017  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 17F0465

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Mark Gelband

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 13, 2017 and listed below. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
17F0465-01	7538-Inf	Vapor Extraction	06/12/2017	06/13/2017
17F0465-02	7538-Eff	Vapor Extraction	06/12/2017	06/13/2017

## **General Notes for York Project (SDG) No.: 17F0465**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 06/19/2017





### Sample Information

**Client Sample ID:** 7538-Inf

**York Sample ID:** 17F0465-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17F0465	7538-MRNY	Vapor Extraction	June 12, 2017 3:00 pm	06/13/2017

**Volatile Organics, EPA TO15 Full List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	18.74	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 00:25	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	10	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	14	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	10	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.6	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.4	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.2	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	14	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.6	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.7	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	13	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.2	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	12	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	8.7	18.74	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 00:25	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	14	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS



### Sample Information

**Client Sample ID:** 7538-Inf

**York Sample ID:** 17F0465-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0465

7538-MRNY

Vapor Extraction

June 12, 2017 3:00 pm

06/13/2017

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.5	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	15	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	29	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.7	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
67-64-1	<b>Acetone</b>	<b>10</b>		ug/m <sup>3</sup>	8.9	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.1	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.0	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	9.7	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	13	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	19	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.3	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.8	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	2.9	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.6	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	4.9	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.2	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.9	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>18</b>		ug/m <sup>3</sup>	7.4	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.5	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.5	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	16	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.3	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS



### Sample Information

**Client Sample ID:** 7538-Inf

**York Sample ID:** 17F0465-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0465

7538-MRNY

Vapor Extraction

June 12, 2017 3:00 pm

06/13/2017

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	14	18.74	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 00:25	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.1	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	20	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.2	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.7	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.8	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	13	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.7	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.6	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.1	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	16	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.2	18.74	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 00:25	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.2	18.74	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 00:25	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.0	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>110</b>		ug/m <sup>3</sup>	3.2	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	11	18.74	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 00:25	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	7.1	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.4	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.5	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
79-01-6	<b>Trichloroethylene</b>	<b>25</b>		ug/m <sup>3</sup>	2.5	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.6	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS



### Sample Information

**Client Sample ID:** 7538-Inf

**York Sample ID:** 17F0465-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0465

7538-MRNY

Vapor Extraction

June 12, 2017 3:00 pm

06/13/2017

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.2	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.8	18.74	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 00:25	LDS
	<b>Surrogate Recoveries</b>	<b>Result</b>					<b>Acceptance Range</b>			
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	94.9 %					72-118			

### Sample Information

**Client Sample ID:** 7538-Eff

**York Sample ID:** 17F0465-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0465

7538-MRNY

Vapor Extraction

June 12, 2017 3:00 pm

06/13/2017

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	12	17.81	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 01:27	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	9.7	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	12	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	14	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	9.7	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.2	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.1	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	13	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>24</b>		ug/m <sup>3</sup>	8.8	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	14	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.2	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS



### Sample Information

**Client Sample ID:** 7538-Eff

**York Sample ID:** 17F0465-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0465

7538-MRNY

Vapor Extraction

June 12, 2017 3:00 pm

06/13/2017

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.2	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	12	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	8.8	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	12	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	8.2	17.81	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 01:27	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	13	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
78-93-3	<b>2-Butanone</b>	<b>56</b>		ug/m <sup>3</sup>	5.3	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	15	17.81	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 01:27	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	28	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.3	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
67-64-1	<b>Acetone</b>	<b>120</b>		ug/m <sup>3</sup>	8.5	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	3.9	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
71-43-2	<b>Benzene</b>	<b>34</b>		ug/m <sup>3</sup>	5.7	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	9.2	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	12	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	18	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	6.9	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.5	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	2.8	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.2	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS





## Sample Information

**Client Sample ID:** 7538-Eff

**York Sample ID:** 17F0465-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0465

7538-MRNY

Vapor Extraction

June 12, 2017 3:00 pm

06/13/2017

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	4.7	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	8.7	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.7	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.1	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.1	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
110-82-7	<b>Cyclohexane</b>	<b>12</b>		ug/m <sup>3</sup>	6.1	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	15	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	8.8	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	13	17.81	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 01:27	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>19</b>		ug/m <sup>3</sup>	7.7	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	19	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	8.8	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.3	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.4	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	12	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
142-82-5	<b>n-Heptane</b>	<b>23</b>		ug/m <sup>3</sup>	7.3	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
110-54-3	<b>n-Hexane</b>	<b>63</b>		ug/m <sup>3</sup>	6.3	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
95-47-6	<b>o-Xylene</b>	<b>21</b>		ug/m <sup>3</sup>	7.7	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>79</b>		ug/m <sup>3</sup>	15	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
622-96-8	* <b>p-Ethyltoluene</b>	<b>24</b>		ug/m <sup>3</sup>	8.8	17.81	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 01:27	LDS
115-07-1	* <b>Propylene</b>	<b>7.0</b>		ug/m <sup>3</sup>	3.1	17.81	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 01:27	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	7.6	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS



### Sample Information

**Client Sample ID:** 7538-Eff

**York Sample ID:** 17F0465-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0465

7538-MRNY

Vapor Extraction

June 12, 2017 3:00 pm

06/13/2017

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	9.7		ug/m <sup>3</sup>	3.0	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
109-99-9	* Tetrahydrofuran	59		ug/m <sup>3</sup>	11	17.81	EPA TO-15 Certifications:	06/14/2017 17:00	06/15/2017 01:27	LDS
108-88-3	Toluene	120		ug/m <sup>3</sup>	6.7	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.1	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.1	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	2.4	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	10	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.3	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	7.8	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.6	17.81	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/14/2017 17:00	06/15/2017 01:27	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: p-Bromofluorobenzene	94.1 %	72-118							



## Notes and Definitions

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



**YORK**  
ANALYTICAL LABORATORY INC.

# Field Chain-of-Custody Record - AIR

Page 17 of 17  
York Project No. 7538

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

<b>YOUR Information</b> Company: <u>Advanced Cleanup Tech</u> Address: <u>110 Main St.</u> Phone No.: <u>516-441-5800</u> Contact Person: <u>Tim Yung</u> E-Mail Address: <u>ty@act-ark</u>	<b>Report To:</b> Company: <u>ACT</u> Address: _____ Phone No.: _____ Attention: <u>Paul Stewart</u> E-Mail Address: <u>Pauls@act-ark</u>	<b>Invoice To:</b> Company: <u>ACT</u> Address: _____ Phone No.: _____ Attention: <u>Karen Fricman</u> E-Mail Address: <u>Karrief@act-ark</u>	<b>YOUR Project ID</b> <u>7538-MRNY</u> <b>Purchase Order No.</b> _____	<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard(5-7 Days) <input checked="" type="checkbox"/>	<b>Report Type/Deliverables</b> Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B/CLP Pkg <input type="checkbox"/> NJDEP Reduced <input type="checkbox"/> <b>Electronic Deliverables:</b> EDD (Specify Type) _____ Standard Excel _____ Regulatory Comparison Excel _____
--	--	--	--	---	--

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Samples Collected/Authorized By (Signature) [Signature]  
Name (printed) Tim Yung

**Air Matrix Codes**  
AI - INDOOR Ambient Air  
AO - OUTDOOR Amb. Air  
AE - Vapor Extraction Well/  
Process Gas/Effluent  
AS - SOIL Vapor/Sub-Slab

**Detection Limits Required**  
≤ 1 ug/m<sup>3</sup> \_\_\_\_\_  
NYSDEC VI Limits \_\_\_\_\_  
(VI = vapor intrusion)  
NJDEP low level \_\_\_\_\_  
Routine Survey \_\_\_\_\_  
Other \_\_\_\_\_

**Additional Notes:** \_\_\_\_\_

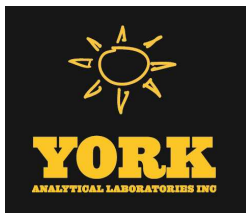
**Please enter the following Field Data**

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
7538 - IAP	6/12/17	AE	-30	-4	19530	N/A	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
7538 - GFI	"	"	*	*	Y64	N/A	TO-15	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag
								6 Liter canister _____ Tedlar Bag

**Comments**  
\* NO GAUGE  
Both samples used NO FLOW REGULATOR (returned w/ canisters)

Samples Relinquished By [Signature] Date/Time 6/13/17 8:00 AM  
Samples Received By [Signature] Date/Time 6/13/17 8:25 AM

Samples Relinquished By [Signature] Date/Time 6/13/17 8:00 AM  
Samples Received By [Signature] Date/Time 6-13-17 2000



# Technical Report

prepared for:

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
**Attention: Paul Stewart**

Report Date: 07/11/2019  
**Client Project ID: 7538-MRNY**  
York Project (SDG) No.: 19G0148

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
www.YORKLAB.com

STRATFORD, CT 06615  
(203) 325-1371

132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
ClientServices@yorklab.com

Report Date: 07/11/2019  
Client Project ID: 7538-MRNY  
York Project (SDG) No.: 19G0148

**Advanced Cleanup Technologies, Inc.**  
110 Main Street  
Port Washington NY, 11050  
Attention: Paul Stewart

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 02, 2019 with a temperature of 1.9 C. The project was identified as your project: **7538-MRNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
19G0148-01	MW-3D	Water	06/28/2019	07/02/2019
19G0148-02	MW-2D	Water	06/28/2019	07/02/2019
19G0148-03	MW-2S	Water	06/28/2019	07/02/2019
19G0148-04	MW-1D	Water	06/28/2019	07/02/2019
19G0148-05	MW-1S	Water	06/28/2019	07/02/2019

## **General Notes for York Project (SDG) No.: 19G0148**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 07/11/2019





### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 19G0148-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19G0148	7538-MRNY	Water	June 28, 2019 10:00 am	07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/05/2019 07:00	07/06/2019 04:37	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 04:37	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 04:37	TMP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 04:37	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 04:37	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP





### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 19G0148-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 10:00 am

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 04:37	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 04:37	TMP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 04:37	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 04:37	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP



### Sample Information

**Client Sample ID:** MW-3D

**York Sample ID:** 19G0148-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 10:00 am

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>0.48</b>	QL-02, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 04:37	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 04:37	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 04:37	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
91-20-3	<b>Naphthalene</b>	<b>1.6</b>	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 04:37	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/05/2019 07:00	07/06/2019 04:37	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/05/2019 07:00	07/06/2019 04:37	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 04:37	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 04:37	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP



### Sample Information

Client Sample ID: MW-3D

York Sample ID: 19G0148-01

York Project (SDG) No. 19G0148	Client Project ID 7538-MRNY	Matrix Water	Collection Date/Time June 28, 2019 10:00 am	Date Received 07/02/2019
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#### Volatile Organics, 8260 List - Low Level

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 04:37	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	95.2 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	100 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	106 %			79-122						

### Sample Information

Client Sample ID: MW-2D

York Sample ID: 19G0148-02

York Project (SDG) No. 19G0148	Client Project ID 7538-MRNY	Matrix Water	Collection Date/Time June 28, 2019 11:25 am	Date Received 07/02/2019
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#### Volatile Organics, 8260 List - Low Level

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 19G0148-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 11:25 am

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
75-35-4	<b>1,1-Dichloroethylene</b>	<b>0.55</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/05/2019 07:00	07/06/2019 05:10	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:10	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:10	TMP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 05:10	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:10	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:10	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:10	TMP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 19G0148-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 11:25 am

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:10	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:10	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>230</b>		ug/L	1.0	2.5	5	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/09/2019 18:03	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:10	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:10	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 19G0148-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 11:25 am

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:10	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
91-20-3	<b>Naphthalene</b>	<b>1.4</b>	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:10	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/05/2019 07:00	07/06/2019 05:10	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/05/2019 07:00	07/06/2019 05:10	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 05:10	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 05:10	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>24</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
79-01-6	<b>Trichloroethylene</b>	<b>2.2</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP



### Sample Information

**Client Sample ID:** MW-2D

**York Sample ID:** 19G0148-02

<u>York Project (SDG) No.</u> 19G0148	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 28, 2019 11:25 am	<u>Date Received</u> 07/02/2019
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**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:10	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	91.0 %			69-130						
2037-26-5	Surrogate: SURRE: Toluene-d8	99.8 %			81-117						
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	109 %			79-122						

### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 19G0148-03

<u>York Project (SDG) No.</u> 19G0148	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 28, 2019 12:15 pm	<u>Date Received</u> 07/02/2019
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**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/05/2019 07:00	07/06/2019 05:44	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:44	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:44	TMP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 05:44	TMP



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 19G0148-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 12:15 pm

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:44	TMP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:44	TMP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:44	TMP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:44	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:44	TMP





### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 19G0148-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 12:15 pm

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:44	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:44	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:44	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
91-20-3	<b>Naphthalene</b>	<b>1.3</b>	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 05:44	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP



### Sample Information

**Client Sample ID:** MW-2S

**York Sample ID:** 19G0148-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 12:15 pm

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/05/2019 07:00	07/06/2019 05:44	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/05/2019 07:00	07/06/2019 05:44	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 05:44	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 05:44	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 05:44	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	94.9 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	101 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	110 %	79-122								



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 19G0148-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 1:30 pm

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
75-35-4	<b>1,1-Dichloroethylene</b>	<b>9.4</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/05/2019 07:00	07/06/2019 06:17	TMP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:17	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:17	TMP
95-93-2	* <b>1,2,4,5-Tetramethylbenzene</b>	<b>0.63</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 06:17	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:17	TMP
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>1.3</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
95-50-1	<b>1,2-Dichlorobenzene</b>	<b>2.6</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>0.49</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:17	TMP
106-46-7	<b>1,4-Dichlorobenzene</b>	<b>0.61</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 19G0148-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 1:30 pm

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:17	TMP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:17	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:17	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
108-90-7	<b>Chlorobenzene</b>	<b>0.92</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>2100</b>		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/10/2019 18:56	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 19G0148-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 1:30 pm

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:17	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:17	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:17	TMP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
91-20-3	<b>Naphthalene</b>	<b>1.4</b>	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:17	TMP
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
103-65-1	<b>n-Propylbenzene</b>	<b>0.22</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/05/2019 07:00	07/06/2019 06:17	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/05/2019 07:00	07/06/2019 06:17	TMP
105-05-5	<b>* p-Diethylbenzene</b>	<b>0.27</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 06:17	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 06:17	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
127-18-4	<b>Tetrachloroethylene</b>	<b>4100</b>		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/10/2019 18:56	TMP
108-88-3	<b>Toluene</b>	<b>0.77</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>150</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP



### Sample Information

**Client Sample ID:** MW-1D

**York Sample ID:** 19G0148-04

<u>York Project (SDG) No.</u> 19G0148	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 28, 2019 1:30 pm	<u>Date Received</u> 07/02/2019
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**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	7500		ug/L	20	50	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/10/2019 18:56	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
75-01-4	Vinyl Chloride	1.6		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:17	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	94.8 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	102 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	105 %	79-122								

### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 19G0148-05

<u>York Project (SDG) No.</u> 19G0148	<u>Client Project ID</u> 7538-MRNY	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 28, 2019 2:40 pm	<u>Date Received</u> 07/02/2019
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**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	07/05/2019 07:00	07/06/2019 06:56	TMP



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 19G0148-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 2:40 pm

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:56	TMP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:56	TMP
95-93-2	* 1,2,4,5-Tetramethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 06:56	TMP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:56	TMP
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>0.67</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>0.95</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:56	TMP
106-46-7	<b>1,4-Dichlorobenzene</b>	<b>0.38</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:56	TMP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP



### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 19G0148-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 2:40 pm

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:56	TMP
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:56	TMP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>300</b>		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/09/2019 19:20	TMP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:56	TMP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:56	TMP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:56	TMP
98-82-8	<b>Isopropylbenzene</b>	<b>0.53</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
91-20-3	<b>Naphthalene</b>	<b>1.5</b>	J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	07/05/2019 07:00	07/06/2019 06:56	TMP





### Sample Information

**Client Sample ID:** MW-1S

**York Sample ID:** 19G0148-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19G0148

7538-MRNY

Water

June 28, 2019 2:40 pm

07/02/2019

**Volatile Organics, 8260 List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
103-65-1	<b>n-Propylbenzene</b>	<b>0.34</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/05/2019 07:00	07/06/2019 06:56	TMP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/05/2019 07:00	07/06/2019 06:56	TMP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 06:56	TMP
622-96-8	* p-Ethyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	07/05/2019 07:00	07/06/2019 06:56	TMP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
135-98-8	<b>sec-Butylbenzene</b>	<b>0.28</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
127-18-4	<b>Tetrachloroethylene</b>	<b>3200</b>	QL-02	ug/L	10	25	50	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/09/2019 20:00	TMP
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
156-60-5	<b>trans-1,2-Dichloroethylene</b>	<b>2.1</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
79-01-6	<b>Trichloroethylene</b>	<b>320</b>		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/09/2019 19:20	TMP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/05/2019 07:00	07/06/2019 06:56	TMP
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	93.3 %	69-130								
2037-26-5	Surrogate: SURRE: Toluene-d8	95.0 %	81-117								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	113 %	79-122								



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19G0148-01	MW-3D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19G0148-02	MW-2D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19G0148-03	MW-2S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19G0148-04	MW-1D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19G0148-05	MW-1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
- CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
- B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

### Definitions and Other Explanations

- \* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.



2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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York Analytical Laboratories, Inc.  
 120 Research Drive  
 Stratford, CT 06615  
 clientservices@yorklab.com  
 www.yorklab.com



**YOUR INFORMATION**

Company: **Advanced Cleanup Tech**  
 Address: **110 Main St  
 Port Washington, NY**  
 Phone: **516-441-5800**  
 Contact: **Tim Young**  
 E-mail: **tim@act-earth.com**

**Report To:**

Company: **ACT**  
 Address: **Same**  
 Phone: **Same**  
 Contact: **Paul Stewart**  
 E-mail: **paul@act-earth.com**

**Invoice To:**

Company: **ACT**  
 Address: **Same**  
 Phone: **Same**  
 Contact: **Karen Fietrow**  
 E-mail: **karen@act-earth.com**

**Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.**

YORK Project No. **19G0148**

Page **1** of **1**

YOUR Project Number **7538-MRNY**

YOUR Project Name

Turn-Around Time  
 RUSH - Next Day  
 RUSH - Two Day  
 RUSH - Three Day  
 RUSH - Four Day  
 Standard (5-7 Day) **X**

**Matrix Codes**

S - soil / solid  
 GW - groundwater  
 DW - drinking water  
 WW - wastewater  
 O - Oil ; Other

**Report / EDD Type (circle selections)**

Summary Report  
 QA Report  
 NY ASP A Package  
 NY ASP B Package

**YORK Reg. Comp.**

Compared to the following Regulation(s): (please fill in)  
**NYSDEC TOSS (GA)**

**Matrix Codes**

S - soil / solid  
 GW - groundwater  
 DW - drinking water  
 WW - wastewater  
 O - Oil ; Other

**Report / EDD Type (circle selections)**

Summary Report  
 QA Report  
 NY ASP A Package  
 NY ASP B Package

**YORK Reg. Comp.**

Compared to the following Regulation(s): (please fill in)  
**NYSDEC TOSS (GA)**

**Sample Matrix**

S - soil / solid  
 GW - groundwater  
 DW - drinking water  
 WW - wastewater  
 O - Oil ; Other

**Report / EDD Type (circle selections)**

Summary Report  
 QA Report  
 NY ASP A Package  
 NY ASP B Package

**YORK Reg. Comp.**

Compared to the following Regulation(s): (please fill in)  
**NYSDEC TOSS (GA)**

**Analysis Requested**

CT RCP  
 CT RCP DQA/DUE  
 NJDEP Reduced Deliverables  
 NJDKQP

**Analysis Requested**

Standard Excel EDD  
 EQUIS (Standard)  
 NYSDEC EQUIS  
 NJDEP SRP HazSite  
 Other:

**Container Description**

**3 VOA's + HCC**

**Sample Identification**

MW-3D  
 MW-2D  
 MW-2S  
 MW-1D  
 MW-1S

**Analysis Requested**

CT RCP  
 CT RCP DQA/DUE  
 NJDEP Reduced Deliverables  
 NJDKQP

**Container Description**

**3 VOA's + HCC**

**Special Instruction**

Field Filtered  
 Lab to Filter

**Special Instruction**

HCl  MeOH \_\_\_ HNO3 \_\_\_ H2SO4 \_\_\_ NaOH \_\_\_ ZnAc \_\_\_  
 Ascorbic Acid \_\_\_ Other: \_\_\_

**Special Instruction**

Field Filtered  
 Lab to Filter



Wednesday, November 23, 2022

Attn: Jason Stewart  
Advanced Cleanup Technologies, Inc.  
228 Park Ave S PMB 34864  
New York, New York 10003

Project ID: 7538-MRNY  
SDG ID: GCM87254  
Sample ID#s: CM87254 - CM87258

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style with a large initial "P".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## SDG Comments

November 23, 2022

SDG I.D.: GCM87254

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8260 Volatile Organics:

1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/ECD method 504 or 8011 to achieve this criteria.



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Sample Id Cross Reference

November 23, 2022

SDG I.D.: GCM87254

Project ID: 7538-MRNY

---

Client Id	Lab Id	Matrix
MW-3D	CM87254	GROUND WATER
MW-2D	CM87255	GROUND WATER
MW-2S	CM87256	GROUND WATER
MW-1S	CM87257	GROUND WATER
MW-1D	CM87258	GROUND WATER





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



**Analysis Report**  
 November 23, 2022

FOR: Attn: Jason Stewart  
 Advanced Cleanup Technologies, Inc.  
 228 Park Ave S PMB 34864  
 New York, New York 10003

Sample Information

Matrix: GROUND WATER  
 Location Code: ACT  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

11/15/22  
 11/16/22

Time

9:45  
 16:00

Laboratory Data

SDG ID: GCM87254  
 Phoenix ID: CM87254

Project ID: 7538-MRNY  
 Client ID: MW-3D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2,3-Trichloropropane	ND	0.25	ug/L	1	11/18/22	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	11/18/22	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	11/18/22	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/18/22	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	11/18/22	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Benzene	ND	0.70	ug/L	1	11/18/22	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
cis-1,2-Dichloroethene	4.0	1.0	ug/L	1	11/18/22	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/18/22	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	11/18/22	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Styrene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/18/22	MH	SW8260C
Toluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/18/22	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	99		%	1	11/18/22	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	11/18/22	MH	70 - 130 %
% Dibromofluoromethane	105		%	1	11/18/22	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	102		%	1	11/18/22	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL  
BRL=Below Reporting Level L=Biased Low

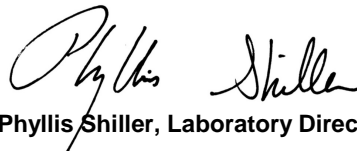
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

**Volatile Comment:**

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**November 23, 2022**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



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**Analysis Report**  
 November 23, 2022

FOR: Attn: Jason Stewart  
 Advanced Cleanup Technologies, Inc.  
 228 Park Ave S PMB 34864  
 New York, New York 10003

Sample Information

Matrix: GROUND WATER  
 Location Code: ACT  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

11/15/22  
 11/16/22

Time

10:45  
 16:00

Laboratory Data

SDG ID: GCM87254  
 Phoenix ID: CM87255

Project ID: 7538-MRNY  
 Client ID: MW-2D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1-Dichloroethene	1.3	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2,3-Trichloropropane	ND	0.25	ug/L	1	11/18/22	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	11/18/22	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	11/18/22	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/18/22	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	11/18/22	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Benzene	ND	0.70	ug/L	1	11/18/22	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
cis-1,2-Dichloroethene	480	20	ug/L	20	11/20/22	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/18/22	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	11/18/22	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Styrene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Tetrachloroethene	9.8	1.0	ug/L	1	11/18/22	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/18/22	MH	SW8260C
Toluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
trans-1,2-Dichloroethene	24	1.0	ug/L	1	11/18/22	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/18/22	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
Trichloroethene	36	20	ug/L	20	11/20/22	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	99		%	1	11/18/22	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	11/18/22	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	11/18/22	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99		%	1	11/18/22	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (20x)	99		%	20	11/20/22	MH	70 - 130 %
% Bromofluorobenzene (20x)	96		%	20	11/20/22	MH	70 - 130 %
% Dibromofluoromethane (20x)	106		%	20	11/20/22	MH	70 - 130 %
% Toluene-d8 (20x)	100		%	20	11/20/22	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL  
BRL=Below Reporting Level L=Biased Low

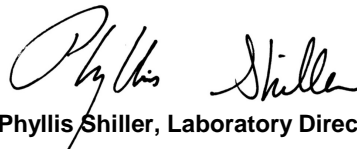
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

**Volatile Comment:**

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**November 23, 2022**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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**Analysis Report**  
 November 23, 2022

FOR: Attn: Jason Stewart  
 Advanced Cleanup Technologies, Inc.  
 228 Park Ave S PMB 34864  
 New York, New York 10003

Sample Information

Matrix: GROUND WATER  
 Location Code: ACT  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

11/15/22  
 11/16/22

Time

12:00  
 16:00

Laboratory Data

SDG ID: GCM87254  
 Phoenix ID: CM87256

Project ID: 7538-MRNY  
 Client ID: MW-2S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2,3-Trichloropropane	ND	0.25	ug/L	1	11/18/22	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	11/18/22	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	11/18/22	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/18/22	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	11/18/22	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Benzene	ND	0.70	ug/L	1	11/18/22	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/18/22	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	11/18/22	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	11/18/22	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Styrene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Tetrachloroethene	2.3	1.0	ug/L	1	11/18/22	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/18/22	MH	SW8260C
Toluene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/18/22	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/18/22	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	11/18/22	MH	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	101		%	1	11/18/22	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	11/18/22	MH	70 - 130 %
% Dibromofluoromethane	106		%	1	11/18/22	MH	70 - 130 %



Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	102		%	1	11/18/22	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL  
BRL=Below Reporting Level L=Biased Low

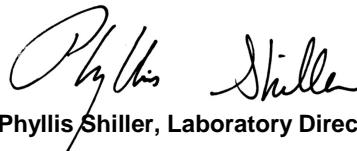
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

**Volatile Comment:**

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**November 23, 2022**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

November 23, 2022

FOR: Attn: Jason Stewart  
 Advanced Cleanup Technologies, Inc.  
 228 Park Ave S PMB 34864  
 New York, New York 10003

### Sample Information

Matrix: GROUND WATER  
 Location Code: ACT  
 Rush Request: Standard  
 P.O.#:

### Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date Time  
 11/15/22 13:05  
 11/16/22 16:00

### Laboratory Data

SDG ID: GCM87254  
 Phoenix ID: CM87257

Project ID: 7538-MRNY  
 Client ID: MW-1S

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Iron (Dissolved)	0.012	0.011	mg/L	1	11/22/22	TH	SW6010D
Manganese (Dissolved)	0.020	0.001	mg/L	1	11/22/22	TH	SW6010D
Iron	0.858	0.010	mg/L	1	11/19/22	CPP	SW6010D
Manganese	0.655	0.001	mg/L	1	11/19/22	CPP	SW6010D
Nitrite as Nitrogen	< 0.01	0.01	mg/L	1	11/16/22 22:39	BS/GD	E300.0
Nitrate as Nitrogen	2.65	0.05	mg/L	1	11/16/22 22:39	BS/GD	E300.0
Sulfate	18.3	5.0	mg/L	1	11/16/22	BS/GD	E300.0
Total Organic Carbon	3.6	1.0	mg/L	1	11/19/22	EG	SM5310B-14
Filtration	Completed				11/17/22	AG	0.45um Filter
Dissolved Metals Preparation	Completed				11/17/22	AG	SW3005A
Total Metals Digestion	Completed				11/16/22	AG	

### Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1-Dichloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1-Dichloroethene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1-Dichloropropene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,2,3-Trichlorobenzene	ND	20	ug/L	20	11/18/22	MH	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,2,4-Trichlorobenzene	ND	20	ug/L	20	11/18/22	MH	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	10	ug/L	20	11/18/22	MH	SW8260C
1,2-Dibromoethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,2-Dichloropropane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,3-Dichloropropane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
2,2-Dichloropropane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
2-Chlorotoluene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
2-Hexanone	ND	50	ug/L	20	11/18/22	MH	SW8260C
2-Isopropyltoluene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
4-Chlorotoluene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
4-Methyl-2-pentanone	ND	50	ug/L	20	11/18/22	MH	SW8260C
Acetone	ND	50	ug/L	20	11/18/22	MH	SW8260C
Acrylonitrile	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Benzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Bromobenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Bromochloromethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Bromodichloromethane	ND	10	ug/L	20	11/18/22	MH	SW8260C
Bromoform	ND	20	ug/L	20	11/18/22	MH	SW8260C
Bromomethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Carbon Disulfide	ND	50	ug/L	20	11/18/22	MH	SW8260C
Carbon tetrachloride	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Chlorobenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Chloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Chloroform	ND	7.0	ug/L	20	11/18/22	MH	SW8260C
Chloromethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
cis-1,2-Dichloroethene	1700	200	ug/L	200	11/20/22	MH	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Dibromochloromethane	ND	10	ug/L	20	11/18/22	MH	SW8260C
Dibromomethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Ethylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Hexachlorobutadiene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Isopropylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
m&p-Xylene	ND	20	ug/L	20	11/18/22	MH	SW8260C
Methyl ethyl ketone	ND	50	ug/L	20	11/18/22	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	20	ug/L	20	11/18/22	MH	SW8260C
Methylene chloride	ND	10	ug/L	20	11/18/22	MH	SW8260C
Naphthalene	ND	10	ug/L	20	11/18/22	MH	SW8260C
n-Butylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
n-Propylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
o-Xylene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
p-Isopropyltoluene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
sec-Butylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Styrene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
tert-Butylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Tetrachloroethene	850	200	ug/L	200	11/20/22	MH	SW8260C
Tetrahydrofuran (THF)	ND	50	ug/L	20	11/18/22	MH	SW8260C
Toluene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
trans-1,2-Dichloroethene	19	5.0	ug/L	20	11/18/22	MH	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	50	ug/L	20	11/18/22	MH	SW8260C
Trichloroethene	1300	200	ug/L	200	11/20/22	MH	SW8260C
Trichlorofluoromethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Trichlorotrifluoroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Vinyl chloride	83	20	ug/L	20	11/18/22	MH	SW8260C
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4 (20x)	99		%	20	11/18/22	MH	70 - 130 %
% Bromofluorobenzene (20x)	96		%	20	11/18/22	MH	70 - 130 %
% Dibromofluoromethane (20x)	105		%	20	11/18/22	MH	70 - 130 %
% Toluene-d8 (20x)	100		%	20	11/18/22	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (200x)	100		%	200	11/20/22	MH	70 - 130 %
% Bromofluorobenzene (200x)	95		%	200	11/20/22	MH	70 - 130 %
% Dibromofluoromethane (200x)	105		%	200	11/20/22	MH	70 - 130 %
% Toluene-d8 (200x)	100		%	200	11/20/22	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL  
 BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

**Volatile Comment:**

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

**Volatile Comment:**

Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**November 23, 2022**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
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# Analysis Report

November 23, 2022

FOR: Attn: Jason Stewart  
 Advanced Cleanup Technologies, Inc.  
 228 Park Ave S PMB 34864  
 New York, New York 10003

### Sample Information

Matrix: GROUND WATER  
 Location Code: ACT  
 Rush Request: Standard  
 P.O.#:

### Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date Time  
 11/15/22 14:15  
 11/16/22 16:00

### Laboratory Data

SDG ID: GCM87254  
 Phoenix ID: CM87258

Project ID: 7538-MRNY  
 Client ID: MW-1D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Iron (Dissolved)	0.065	0.011	mg/L	1	11/22/22	TH	SW6010D
Manganese (Dissolved)	0.463	0.001	mg/L	1	11/22/22	TH	SW6010D
Iron	4.74	0.010	mg/L	1	11/19/22	CPP	SW6010D
Manganese	0.838	0.001	mg/L	1	11/19/22	CPP	SW6010D
Nitrite as Nitrogen	< 0.01	0.01	mg/L	1	11/16/22 22:49	BS/GD	E300.0
Nitrate as Nitrogen	< 0.05	0.05	mg/L	1	11/16/22 22:49	BS/GD	E300.0
Sulfate	< 5.0	5.0	mg/L	1	11/16/22	BS/GD	E300.0
Total Organic Carbon	< 1.0	1.0	mg/L	1	11/19/22	EG	SM5310B-14
Filtration	Completed				11/17/22	AG	0.45um Filter
Dissolved Metals Preparation	Completed				11/17/22	AG	SW3005A
Total Metals Digestion	Completed				11/16/22	AG	

### Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1-Dichloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1-Dichloroethene	14	5.0	ug/L	20	11/18/22	MH	SW8260C
1,1-Dichloropropene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,2,3-Trichlorobenzene	ND	20	ug/L	20	11/18/22	MH	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,2,4-Trichlorobenzene	ND	20	ug/L	20	11/18/22	MH	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	10	ug/L	20	11/18/22	MH	SW8260C
1,2-Dibromoethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,2-Dichloropropane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,3-Dichloropropane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
2,2-Dichloropropane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
2-Chlorotoluene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
2-Hexanone	ND	50	ug/L	20	11/18/22	MH	SW8260C
2-Isopropyltoluene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
4-Chlorotoluene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
4-Methyl-2-pentanone	ND	50	ug/L	20	11/18/22	MH	SW8260C
Acetone	ND	50	ug/L	20	11/18/22	MH	SW8260C
Acrylonitrile	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Benzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Bromobenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Bromochloromethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Bromodichloromethane	ND	10	ug/L	20	11/18/22	MH	SW8260C
Bromoform	ND	20	ug/L	20	11/18/22	MH	SW8260C
Bromomethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Carbon Disulfide	ND	50	ug/L	20	11/18/22	MH	SW8260C
Carbon tetrachloride	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Chlorobenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Chloroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Chloroform	ND	7.0	ug/L	20	11/18/22	MH	SW8260C
Chloromethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
cis-1,2-Dichloroethene	3700	500	ug/L	500	11/20/22	MH	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Dibromochloromethane	ND	10	ug/L	20	11/18/22	MH	SW8260C
Dibromomethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Ethylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Hexachlorobutadiene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Isopropylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
m&p-Xylene	ND	20	ug/L	20	11/18/22	MH	SW8260C
Methyl ethyl ketone	ND	50	ug/L	20	11/18/22	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	20	ug/L	20	11/18/22	MH	SW8260C
Methylene chloride	ND	10	ug/L	20	11/18/22	MH	SW8260C
Naphthalene	ND	10	ug/L	20	11/18/22	MH	SW8260C
n-Butylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
n-Propylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
o-Xylene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
p-Isopropyltoluene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
sec-Butylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Styrene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
tert-Butylbenzene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Tetrachloroethene	6000	500	ug/L	500	11/20/22	MH	SW8260C
Tetrahydrofuran (THF)	ND	50	ug/L	20	11/18/22	MH	SW8260C
Toluene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
trans-1,2-Dichloroethene	160	20	ug/L	20	11/18/22	MH	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	50	ug/L	20	11/18/22	MH	SW8260C
Trichloroethene	8700	500	ug/L	500	11/20/22	MH	SW8260C
Trichlorofluoromethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Trichlorotrifluoroethane	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
Vinyl chloride	ND	5.0	ug/L	20	11/18/22	MH	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4 (20x)	100		%	20	11/18/22	MH	70 - 130 %
% Bromofluorobenzene (20x)	97		%	20	11/18/22	MH	70 - 130 %
% Dibromofluoromethane (20x)	106		%	20	11/18/22	MH	70 - 130 %
% Toluene-d8 (20x)	109		%	20	11/18/22	MH	70 - 130 %
% 1,2-dichlorobenzene-d4 (500x)	99		%	500	11/20/22	MH	70 - 130 %
% Bromofluorobenzene (500x)	96		%	500	11/20/22	MH	70 - 130 %
% Dibromofluoromethane (500x)	105		%	500	11/20/22	MH	70 - 130 %
% Toluene-d8 (500x)	100		%	500	11/20/22	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL  
 BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

**Volatile Comment:**

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

**Volatile Comment:**

Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**November 23, 2022**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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# QA/QC Report

November 23, 2022

## QA/QC Data

SDG I.D.: GCM87254

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 652392 (mg/L), QC Sample No: CM86391 (CM87257, CM87258)													
<u>ICP Metals - Aqueous</u>													
Iron	BRL	0.010	0.041	0.043	NC	98.4	98.3	0.1	101			80 - 120	20
Manganese	BRL	0.001	0.008	0.008	0	99.4	98.8	0.6	102			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 652608 (mg/L), QC Sample No: CM87694 (CM87257, CM87258)													
<u>ICP Metals - Dissolved</u>													
Iron	BRL	0.011	0.016	0.015	NC	94.4	93.4	1.1	94.0			80 - 120	20
Manganese	BRL	0.001	0.036	0.038	5.40	95.6	95.3	0.3	96.1			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													





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# QA/QC Report

November 23, 2022

## QA/QC Data

SDG I.D.: GCM87254

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 652908 (mg/L), QC Sample No: CM88186 (CM87257, CM87258)													
Total Organic Carbon	BRL	1.0	1.1	1.0	NC	102			110			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 652710 (mg/L), QC Sample No: CM86393 (CM87257, CM87258)													
Nitrate as Nitrogen	BRL	0.05	0.03	<0.05	NC	92.5			92.6			90 - 110	20
Nitrite as Nitrogen	BRL	0.004	<0.004	<0.004	NC	94.6			92.2			90 - 110	20
Sulfate	BRL	5.0	10.3	10.0	NC	97.6			93.6			90 - 110	20



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# QA/QC Report

November 23, 2022

## QA/QC Data

SDG I.D.: GCM87254

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 653044 (ug/L), QC Sample No: CM87067 (CM87254, CM87255, CM87256, CM87257 (20X) , CM87258 (20X) )										
<u>Volatiles - Ground Water</u>										
1,1,1,2-Tetrachloroethane	ND	1.0	117	114	2.6				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	104	99	4.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	106	103	2.9				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	105	102	2.9				70 - 130	30
1,1-Dichloroethane	ND	1.0	103	99	4.0				70 - 130	30
1,1-Dichloroethene	ND	1.0	102	96	6.1				70 - 130	30
1,1-Dichloropropene	ND	1.0	103	96	7.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	113	112	0.9				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	108	106	1.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	113	111	1.8				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	112	108	3.6				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	106	107	0.9				70 - 130	30
1,2-Dibromoethane	ND	1.0	111	110	0.9				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	109	105	3.7				70 - 130	30
1,2-Dichloroethane	ND	1.0	105	101	3.9				70 - 130	30
1,2-Dichloropropane	ND	1.0	106	103	2.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	112	108	3.6				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	109	107	1.9				70 - 130	30
1,3-Dichloropropane	ND	1.0	110	107	2.8				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	108	106	1.9				70 - 130	30
2,2-Dichloropropane	ND	1.0	101	114	12.1				70 - 130	30
2-Chlorotoluene	ND	1.0	111	109	1.8				70 - 130	30
2-Hexanone	ND	5.0	105	102	2.9				70 - 130	30
2-Isopropyltoluene	ND	1.0	110	106	3.7				70 - 130	30
4-Chlorotoluene	ND	1.0	112	109	2.7				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	102	100	2.0				70 - 130	30
Acetone	ND	5.0	91	89	2.2				70 - 130	30
Acrylonitrile	ND	5.0	102	95	7.1				70 - 130	30
Benzene	ND	0.70	109	105	3.7				70 - 130	30
Bromobenzene	ND	1.0	112	110	1.8				70 - 130	30
Bromochloromethane	ND	1.0	105	104	1.0				70 - 130	30
Bromodichloromethane	ND	0.50	106	103	2.9				70 - 130	30
Bromoform	ND	1.0	104	103	1.0				70 - 130	30
Bromomethane	ND	1.0	119	119	0.0				70 - 130	30
Carbon Disulfide	ND	1.0	96	91	5.3				70 - 130	30
Carbon tetrachloride	ND	1.0	104	98	5.9				70 - 130	30
Chlorobenzene	ND	1.0	108	106	1.9				70 - 130	30
Chloroethane	ND	1.0	101	97	4.0				70 - 130	30
Chloroform	ND	1.0	101	97	4.0				70 - 130	30
Chloromethane	ND	1.0	105	104	1.0				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	105	101	3.9				70 - 130	30

## QA/QC Data

SDG I.D.: GCM87254

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
cis-1,3-Dichloropropene	ND	0.40	110	110	0.0				70 - 130	30
Dibromochloromethane	ND	0.50	113	114	0.9				70 - 130	30
Dibromomethane	ND	1.0	108	105	2.8				70 - 130	30
Dichlorodifluoromethane	ND	1.0	95	93	2.1				70 - 130	30
Ethylbenzene	ND	1.0	111	107	3.7				70 - 130	30
Hexachlorobutadiene	ND	0.40	98	103	5.0				70 - 130	30
Isopropylbenzene	ND	1.0	113	108	4.5				70 - 130	30
m&p-Xylene	ND	1.0	110	107	2.8				70 - 130	30
Methyl ethyl ketone	ND	5.0	103	101	2.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	103	100	3.0				70 - 130	30
Methylene chloride	ND	1.0	91	89	2.2				70 - 130	30
Naphthalene	ND	1.0	114	111	2.7				70 - 130	30
n-Butylbenzene	ND	1.0	108	106	1.9				70 - 130	30
n-Propylbenzene	ND	1.0	110	107	2.8				70 - 130	30
o-Xylene	ND	1.0	110	107	2.8				70 - 130	30
p-Isopropyltoluene	ND	1.0	109	106	2.8				70 - 130	30
sec-Butylbenzene	ND	1.0	110	106	3.7				70 - 130	30
Styrene	ND	1.0	115	111	3.5				70 - 130	30
tert-Butylbenzene	ND	1.0	110	106	3.7				70 - 130	30
Tetrachloroethene	ND	1.0	105	99	5.9				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	87	88	1.1				70 - 130	30
Toluene	ND	1.0	109	105	3.7				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	105	99	5.9				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	113	115	1.8				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	104	109	4.7				70 - 130	30
Trichloroethene	ND	1.0	107	102	4.8				70 - 130	30
Trichlorofluoromethane	ND	1.0	99	92	7.3				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	90	86	4.5				70 - 130	30
Vinyl chloride	ND	1.0	106	98	7.8				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	99	1.0				70 - 130	30
% Bromofluorobenzene	98	%	101	101	0.0				70 - 130	30
% Dibromofluoromethane	102	%	96	95	1.0				70 - 130	30
% Toluene-d8	100	%	99	100	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 653135 (ug/L), QC Sample No: CM87258 (CM87255 (20X) , CM87257 (200X) , CM87258 (500X) )

### Volatiles - Ground Water

cis-1,2-Dichloroethene	ND	1.0	100	98	2.0				70 - 130	30
Tetrachloroethene	ND	1.0	90	89	1.1				70 - 130	30
Trichloroethene	ND	1.0	94	92	2.2				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	99	99	0.0				70 - 130	30
% Bromofluorobenzene	95	%	98	101	3.0				70 - 130	30
% Dibromofluoromethane	104	%	100	100	0.0				70 - 130	30
% Toluene-d8	100	%	100	101	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

# QA/QC Data

SDG I.D.: GCM87254

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference



Phyllis Shiller, Laboratory Director  
November 23, 2022

Criteria: NY: GW

State: NY

# Sample Criteria Exceedances Report

GCM87254 - ACT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CM87254	\$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CM87254	\$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CM87254	\$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CM87255	\$8260GWR	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	9.8	1.0	5	5	ug/L
CM87255	\$8260GWR	trans-1,2-Dichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	24	1.0	5	5	ug/L
CM87255	\$8260GWR	Trichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	36	20	5	5	ug/L
CM87255	\$8260GWR	Trichloroethene	NY / TOGS - Water Quality / GA Criteria	36	20	5	5	ug/L
CM87255	\$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CM87255	\$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CM87255	\$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CM87255	\$8260GWR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	480	20	5	5	ug/L
CM87255	\$8260GWR	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	9.8	1.0	5	5	ug/L
CM87255	\$8260GWR	trans-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	24	1.0	5	5	ug/L
CM87256	\$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CM87256	\$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CM87256	\$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CM87257	\$8260GWR	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	5.0	0.7	0.7	ug/L
CM87257	\$8260GWR	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	83	20	2	2	ug/L
CM87257	\$8260GWR	trans-1,2-Dichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	19	5.0	5	5	ug/L
CM87257	\$8260GWR	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	850	200	5	5	ug/L
CM87257	\$8260GWR	Naphthalene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	10	5	5	ug/L
CM87257	\$8260GWR	Methylene chloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	10	5	5	ug/L
CM87257	\$8260GWR	1,2-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	5.0	4.7	4.7	ug/L
CM87257	\$8260GWR	Trichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	1300	200	5	5	ug/L
CM87257	\$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.04	0.04	ug/L
CM87257	\$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	10	0.04	0.04	ug/L
CM87257	\$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.0006	0.0006	ug/L
CM87257	\$8260GWR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.6	0.6	ug/L
CM87257	\$8260GWR	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
CM87257	\$8260GWR	1,3-Dichlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	3	3	ug/L
CM87257	\$8260GWR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
CM87257	\$8260GWR	Benzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
CM87257	\$8260GWR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
CM87257	\$8260GWR	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	83	20	2	2	ug/L
CM87257	\$8260GWR	Trichloroethene	NY / TOGS - Water Quality / GA Criteria	1300	200	5	5	ug/L
CM87257	\$8260GWR	trans-1,4-dichloro-2-butene	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
CM87257	\$8260GWR	trans-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	19	5.0	5	5	ug/L
CM87257	\$8260GWR	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	850	200	5	5	ug/L
CM87257	\$8260GWR	Methylene chloride	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
CM87257	\$8260GWR	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.5	0.5	ug/L

# Sample Criteria Exceedances Report

## GCM87254 - ACT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CM87257	\$8260GWR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
CM87257	\$8260GWR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	1700	200	5	5	ug/L
CM87257	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	0.858	0.010	0.3	0.3	mg/L
CM87257	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	0.655	0.001	0.3	0.3	mg/L
CM87258	\$8260GWR	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	5.0	2	2	ug/L
CM87258	\$8260GWR	Methylene chloride	NY / TAGM - Volatile Organics / Groundwater Standards	ND	10	5	5	ug/L
CM87258	\$8260GWR	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	6000	500	5	5	ug/L
CM87258	\$8260GWR	Naphthalene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	10	5	5	ug/L
CM87258	\$8260GWR	trans-1,2-Dichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	160	20	5	5	ug/L
CM87258	\$8260GWR	Trichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	8700	500	5	5	ug/L
CM87258	\$8260GWR	1,1-Dichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	14	5.0	5	5	ug/L
CM87258	\$8260GWR	1,2-Dichlorobenzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	5.0	4.7	4.7	ug/L
CM87258	\$8260GWR	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	5.0	0.7	0.7	ug/L
CM87258	\$8260GWR	Hexachlorobutadiene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.5	0.5	ug/L
CM87258	\$8260GWR	Methylene chloride	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
CM87258	\$8260GWR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
CM87258	\$8260GWR	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	6000	500	5	5	ug/L
CM87258	\$8260GWR	trans-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	160	20	5	5	ug/L
CM87258	\$8260GWR	Benzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
CM87258	\$8260GWR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
CM87258	\$8260GWR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	3700	500	5	5	ug/L
CM87258	\$8260GWR	trans-1,4-dichloro-2-butene	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
CM87258	\$8260GWR	Trichloroethene	NY / TOGS - Water Quality / GA Criteria	8700	500	5	5	ug/L
CM87258	\$8260GWR	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	ND	5.0	2	2	ug/L
CM87258	\$8260GWR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.6	0.6	ug/L
CM87258	\$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.0006	0.0006	ug/L
CM87258	\$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	10	0.04	0.04	ug/L
CM87258	\$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.04	0.04	ug/L
CM87258	\$8260GWR	1,1-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	14	5.0	5	5	ug/L
CM87258	\$8260GWR	1,1,2-Trichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
CM87258	\$8260GWR	1,3-Dichlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	3	3	ug/L
CM87258	\$8260GWR	1,2-Dichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
CM87258	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.463	0.001	0.3	0.3	mg/L
CM87258	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	4.74	0.010	0.3	0.3	mg/L
CM87258	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	0.838	0.001	0.3	0.3	mg/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

November 23, 2022

SDG I.D.: GCM87254

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

### **VOA Narration**

**CHEM17 11/18/22-2:** CM87254, CM87255, CM87256, CM87257, CM87258

Chem 17 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments. EPA method 8260D Table 4 supports this approach.

The following Initial Calibration compounds did not meet RSD% criteria: 1,1,1,2-Tetrachloroethane 22% (20%), Bromomethane 26% (20%), Dibromochloromethane 21% (20%), trans-1,3-Dichloropropene 28% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: 2-Hexanone 0.052 (0.1), 4-Methyl-2-pentanone 0.071 (0.1), Acetone 0.032 (0.1), Acrylonitrile 0.042 (0.05), Methyl ethyl ketone 0.048 (0.1), Tetrahydrofuran (THF) 0.033 (0.05)

The following Initial Calibration compounds did not meet minimum response factors: Acetone 0.032 (0.05), Acrylonitrile 0.042 (0.05), Methyl ethyl ketone 0.048 (0.05), Tetrahydrofuran (THF) 0.033 (0.05)

The following Continuing Calibration compounds did not meet recommended response factors: Acetone 0.034 (0.05), Acrylonitrile 0.046 (0.05), Tetrahydrofuran (THF) 0.031 (0.05)

The following Continuing Calibration compounds did not meet minimum response factors: Acetone 0.032 (0.05), Acrylonitrile 0.042 (0.05), Tetrahydrofuran (THF) 0.033 (0.05)

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



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# NY Temperature Narration

November 23, 2022

SDG I.D.: GCM87254

---

The samples in this delivery group were received at 1.2°C.  
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



# NY/NJ/PA CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
**Client Services (860) 645-8726**

Coolant:  IPK  ICE  No  No  
 Temp: 2 C Pg of

**Contact Options:**

Phone:   
 Fax:   
 Email:

Project P.O.: 7538 MRNY

Report to: JASON STEWART

Invoice to: KAREN FRIEDMAN

QUOTE # : \_\_\_\_\_

Customer: Advanced Cleanup Technologies

Address: 228 Park Ave S PMB 34864  
NY, NY 10003

**This section MUST be completed with Bottle Quantities.**

Sampler's Signature	Client Sample - Information - Identification	Analysis Request
<i>[Signature]</i>	<p>Matrix Code:                      DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water                      RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe                      OIL=Oil B=Bulk L=Liquid</p> <p>PHOENIX USE ONLY                      SAMPLE #    Customer Sample Identification    Sample Matrix    Date Sampled    Time Sampled</p>	<p>GL Amber 8 oz WH3PO4                      GL Amber 250ml [ 250ml ] H2O                      GL Amber 1000ml [ 1000ml ] H2O                      GL Amber 1000ml [ 1000ml ] H2O                      GL Amber 1000ml [ 1000ml ] H2O                      PL As is [ 250ml ] [ 150ml ] [ 150ml ] [ 1000ml ]                      PL H2SO4 [ 250ml ] [ 150ml ] [ 150ml ]                      PL HNO3 250ml                      Bacteria Bottle with 15</p>
	<p>VOC                      Nitrates                      Sulfates                      Total Dissolved Ion                      Total Dissolved Inorganics</p>	<p>3                      3                      3                      5                      5</p>

Relinquished by: [Signature] Accepted by: [Signature] Date: 11-16-22 Time: 10:30

Turnaround:  1 Day\*  2 Days\*  3 Days\*  5 Days  10 Days  Other

**PA**  
 Clean Fill Limits  
 PA-GW  
 Reg Fill Limits  
 PA Soil Restricted  
 PA Soil non-restricted

**NY**  
 TOGS GW  
 CP-51 SOIL  
 375SCO  
 Unrestricted Soil  
 375SCO  
 375SCO  
 Residential Restricted Soil  
 375SCO  
 Commercial Soil  
 375SCO  
 Industrial Soil  
 Subpart 5 DW

**NJ**  
 Res. Criteria  
 Non-Res. Criteria  
 Impact to GW Soil Cleanup Criteria  
 Impact to GW soil screen Criteria  
 GW Criteria

\* SURCHARGE APPLIES

Data Package:  
 NJ Reduced Deliv.\*  Other  
 NY Enhanced (ASP B)\*

Data Format:  
 Phoenix Std Report  EQUIS  NJ Hazsite EDD  
 Excel  PDF  NY EZ EDD  
 GIS/Key  Other

Comments, Special Requirements or Regulations:  
 NYSDEC TOGS (6A)  
 LAB TO FLTR 250ml  
 non pres bottles for analyses (TY)

State Samples Collected? NY

## **Appendix B**

### **Community Air Monitoring Plan**

## New York State Department of Health Generic Community Air Monitoring Plan

### Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

### Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

**Continuous monitoring** will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

**Periodic monitoring** for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

#### VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

#### Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter ( $\text{mcg}/\text{m}^3$ ) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed  $150 \text{ mcg}/\text{m}^3$  above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than  $150 \text{ mcg}/\text{m}^3$  above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within  $150 \text{ mcg}/\text{m}^3$  of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

## **Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals Structures**

- When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.
- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Depending upon the nature of contamination, chemical-specific colorimetric tubes of sufficient sensitivity may be necessary for comparing the exposure point concentrations with appropriate pre-determined response levels (response actions should also be pre-determined). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.
- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m<sup>3</sup>, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m<sup>3</sup> or less at the monitoring point.

## **Appendix C**

### **Quality Assurance Project Plan**



## **QUALITY ASSURANCE PROJECT PLAN**

**1818 Merrick Road  
Merrick, NY 11566**

**Block 9694, Lot 417**

**NYSDEC BCP No. C130094**

**October 2023**

**Prepared for:**

Busy Bee Cleaners  
1818 Merrick Road  
Merrick, NY 11556

**Prepared by:**

Advanced Cleanup Technologies, Inc.  
228 Park Avenue South, PMB 34864  
New York, NY 10003  
516-441-5800



**TABLE OF CONTENTS**

**Page No.**

---

<b>1.0</b>	<b>INTRODUCTION .....</b>	<b>1</b>
<b>2.0</b>	<b>PROJECT ORGANIZATION AND PERSONNEL RESPONSIBILITES .....</b>	<b>2</b>
<b>3.0</b>	<b>QUALITY ASSURANCE PROJECT OBJECTIVES .....</b>	<b>3</b>
3.1	Data Quality Categories.....	3
3.2	QA/QC Characteristics .....	4
<b>4.0</b>	<b>SITE MONITORING ACTIVITIES .....</b>	<b>5</b>
4.1	Soil Sampling.....	5
4.2	Soil Vapor Sampling.....	6
4.3	Groundwater Sampling.....	6
4.4	Indoor Air Sampling .....	7
<b>5.0</b>	<b>SAMPLE CUSTODY AND DOCUMENTATION.....</b>	<b>7</b>
5.1	Sample Identification System .....	8
5.2	Sample Custody and Packaging.....	8
5.2.1	Field Custody and Packaging Procedures.....	9
5.2.2	Laboratory Custody Procedures.....	10
<b>6.0</b>	<b>ANALYTICAL REQUIREMENTS.....</b>	<b>10</b>
<b>7.0</b>	<b>DECONTAMINATION PROCEDURES.....</b>	<b>11</b>
7.1	General Procedures .....	11
7.2	Drilling Equipment .....	12
7.3	Sampling Equipment .....	12
<b>8.0</b>	<b>QUALITY ASSURANCE/QUALITY CONTROL SAMPLE REQUIREMENTS...12</b>	
8.1	Field Quality/Control Samples .....	12
8.1.1	Field Blanks .....	13
8.1.2	Trip Blanks .....	13
8.1.3	Temperature Blanks.....	13
8.1.4	Field Environmental Duplicate Samples .....	13

**TABLE OF CONTENTS (Continued)**

**Page No.**

---

8.2	Laboratory Quality Control Samples .....	14
8.2.1	Method Blanks/Preparation Blanks .....	14
8.2.2	Laboratory Control Samples .....	14
8.2.3	Surrogate Compounds.....	15
8.2.4	Internal Standard.....	15
<b>9.0</b>	<b>INSTRUMENT CALIBRATION AND PREVENTIVE MAINTENANCE .....</b>	<b>15</b>
9.1	Calibration .....	15
9.2	Preventive Maintenance.....	16
<b>10.0</b>	<b>DATA REDUCTION, VALIDATION AND REPORTING.....</b>	<b>17</b>
10.1	Data Reduction .....	17
10.1.1	Field Data Reduction .....	17
10.1.2	Laboratory Data Reduction.....	17
10.1.3	Project Data Reduction .....	18
10.2	Data Usability and Validation.....	18
10.2.1	Data Usability and Validation Requirements .....	18
10.2.2	Data Usability and Validation Methods.....	19
<b>11.0</b>	<b>CORRECTIVE ACTION .....</b>	<b>19</b>

## **1.0 INTRODUCTION**

Advanced Cleanup Technologies, Inc. (ACT) has prepared this Quality Assurance Project Plan (QAPP) for site activities to be undertaken at the property located at 1818 Merrick Road, Merrick, NY 11566 (the Site). This QAPP has been prepared to define the quality assurance (QA) and quality control (QC) measures to be implemented, to verify the integrity of the work to be performed at the site, and that the data collected will be of the appropriate type and quality needed for the intended use. Specifically, this QAPP addresses the following:

- Project Objectives, including Quality Assurance Objectives for Data
- Overview of Field Sampling Program and Procedures
- Sample Packaging and Shipping
- Sample Documentation
- Sample Analytical Program
- Quality Assurance/Quality Control Procedures

### **1.1 Project Scopes and Goals**

Investigations to date have consisted of shallow soil, soil vapor, and indoor air sampling at the Site. The proposed project scope is to perform a comprehensive investigation of on and offsite soil, soil vapor, and groundwater quality. The project goal is to fully evaluate the nature and extent of contamination from the Site.

### **1.2 Clean-up Criteria**

Soil quality data will be compared to NYSDEC Part 375-6.8(a) Unrestricted Used Soil Cleanup Objectives, Part 375-6.8(b) Protection of Groundwater for applicable compounds, Restricted Commercial Use Soil Cleanup Objectives (SCOs). Groundwater quality data will be compared to NYSDEC Part 703 Groundwater Quality Standards (Class GA) or Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards. Soil vapor quality data will be compared to NYSDOH soil vapor screening levels contained in Matrix

A, B and C of the NYSDOH Guidance and Indoor Air Guidelines. A site map depicting sampling locations is attached below.

## **2.0 PROJECT ORGANIZATION AND PERSONNEL RESPONSIBILITIES**

The investigative efforts defined in the RIWP will be coordinated by ACT on behalf of the NYSDEC. The NYSDEC is the lead regulatory agency overseeing the investigation site. An organization structure has been developed to identify the roles and responsibilities of the various parties involved with the project, as discussed below.

The **NYSDEC Project Manager, Wendi Zheng**, will be responsible for reviewing and approving work plans and amendments, coordinating approval of requested modifications, and providing guidance on regulatory requirements.

The **Environmental Contractor Project Director, Paul Stewart of ACT**, will provide technical expertise for review of the project plans, reports and ongoing field activities. The program manager will be responsible for the coordination of the overall project with the NYSDEC. The Project Director will act as the project's Quality Assurance Manager.

The **Environmental Contractor Project Manager, Jason Stewart of ACT**, will be responsible for the day-to-day project management, task leadership, and project engineering support and for the planning and implementation of RIWP activities. The Project Manager will be responsible for ensuring that the requirements of the RIWP are implemented. The project manager will also act as the site Health and Safety Manager (HSM).

The **Environmental Contractor Quality Assurance Officer, Joseph Sgueglia of ACT**, will be responsible for quality assurance and quality control for sampling and laboratory performance.

The **Environmental Contractor Field Team Leader, Yisong Yang of ACT**, will be responsible for sample collection, oversight of subcontractor personnel, and coordination of daily field activities. The Field Team Leader will act as the Site Health and Safety Officer ensuring implementation of the Site Health and Safety Plan.

A NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified laboratory, **Phoenix Analytical Laboratories, Inc. (NYSDOH #11301)**, will be contracted to perform required analyses and reporting, including Analytical Services Protocol (ASP) Category B Deliverables, which will allow for data validation.

NYSDEC ASP Category B Data Deliverables will be submitted for all of the samples representing the final delineation of the nature and extent of contamination for a remedial investigation. Data validation packages and Data Usability Summary Reports (DUSRs) will be provided in the RIR to support the remedial investigation. The DUSRs for this project will be prepared by LABORATORY DATA CONSULTANTS, INC. and qualifications for preparing the DUSR report is provided in Appendix E.

Subcontractors will perform remedial construction, surveying, drilling, and/or sampling at the direction of the Field Team Leader in accordance with this RIWP.

### **3.0 QUALITY ASSURANCE PROJECT OBJECTIVES**

The objective of RIWP activities for the site is to obtain sufficient data at a known quality level to assess the effectiveness of the remedy selected in eliminating, reducing, or controlling risks to human health and the environment.

#### **3.1 Data Quality Categories**

Data quality objectives (DQO) are qualitative and quantitative statements that specify the quality of the data required to support decisions during remedial and monitoring activities. DQOs composed of written expectations for precision, accuracy, representativeness, completeness and comparability of a data set (see Section 3.2). The DQO process provides a

logical basis for linking the QA/QC procedures to the intended use of the data, primarily through the decision maker's acceptable limits on decision error. One descriptive data categories - definitive data - will be used for the site.

Definitive data is generated using specific analytical methods and guidelines and have satisfied known QA/QC requirements. Analytical data provided by an off-site laboratory shall be definitive data, and are deemed critical to project objectives. QA/QC elements of definitive data include determination and documentation of calibrations, detection limits, method blanks, and matrix spike recoveries.

### 3.2 QA/QC Characteristics

The overall QA/QC objective for RIWP activities is to develop and implement procedures that will provide data of known and documented quality. QA/QC characteristics for data include precision, accuracy, representativeness, completeness, and comparability (PARCC). Data quality objectives for each of these parameters are determined based on the level of data required. Descriptions of these characteristics are provided below:

**Precision** is the measurement of agreement in repeated tests of the same or identical samples, under prescribed conditions. Analytical precision can be expressed in terms of Standard Deviation (SD), Relative Standard Deviation (RSD) and/or Relative Percent Difference (RPD). The precision of analytical environmental samples has two components - laboratory precision and sampling precision. Laboratory precision is determined by replicate measurements of laboratory duplicates and by analysis of reference materials. The precision of the field sampling effort is determined by the analysis of field duplicate samples. Field duplicate analysis will be performed at a rate of five percent (i.e., one duplicate collected for every 20 samples). Acceptance criteria for duplicates analyzed by an off-site laboratory shall be an RPD of 25 percent.

**Accuracy** is the degree of agreement of a measured sample result or average of results with an accepted reference or true value. It is the quantitative measurement of the bias of a system, and

is expressed in terms of percent recovery (%R). Measurements of accuracy for the laboratory include surrogate spike, laboratory control spike, matrix spike and matrix spike duplicate samples. The laboratory must meet or exceed control limit objectives and the applicable methodologies.

**Representativeness** is the degree to which the results of the analyses accurately and precisely represent a characteristic of a population, a process condition, or an environmental condition. In this case, representativeness is the degree to which the data reflect the contaminants present and their concentration magnitudes in the sampled site areas. Representativeness of data will be ensured through the implementation of approved sampling procedures. Results from environmental field duplicate sample analyses can be used to assess representativeness, in addition to precision.

**Completeness** is defined as the percentage of samples that meet or exceed all the criteria objective levels for accuracy, precision and detection limits within a defined time period or event. It is the measure of the number of data “points” which are judged to be valid, usable results. The objective for completeness for this project is 100 percent, and will be calculated by dividing the number of usable data results (i.e., all results not considered to be “rejected” and all samples able to be analyzed) by the number of possible data results (i.e., the total number of field samples collected), and then multiplying by 100 percent.

**Comparability** is the degree of confidence with which results from two or more data sets, or two or more laboratories, may be compared. To achieve comparability, standard environmental methodologies will be employed in the field and in the laboratory. See Section 6.0 for analysis methods and detection limits for this RIWP activities.

#### **4.0 SITE MONITORING ACTIVITIES**

Monitoring activities to be performed at the site will be conducted in accordance with established technical guidelines, methods, policies and Standard Operating Procedures (SOPs). The subsections below present an overview of the sampling program procedures; a more detailed discussion of the monitoring activities is presented in the RIWP.

#### **4.1 Soil Sampling**

Soil samples will be collected continuously from grade to the water table surface. Soil samples will be collected in either four or five-foot increments in dedicated acetate liners contained within a Geoprobe Macrocore sampler and screened utilizing a Photoionization Detector (PID). Soil recovered from each macro core sampler will be visually characterized for color, texture, and moisture content and screened with a photoionization detector (PID). The presence of visible staining and elevated PID readings will be noted. Soil samples will be collected for laboratory analysis as prescribed in Section 3.2 of the RIWP.

#### **4.2 Sub-slab Soil Vapor Sampling**

Sub-slab soil vapor sample will be collected utilizing dedicated Teflon tubing implanted within 6 inches of the base of the basement slab and backed with coarse sand. A 6-Liter stainless steel Summa canister with a flow regulator set to collect an entire sample in 4 to 6 hours will be connected to the other end of Teflon tubing. Once the canister is in place, the flow regulator will be opened and sampling will continue until the canister is full. Soil vapor samples will be transmitted under chain of custody to ELAP-certified laboratory.

All samples will be analyzed for VOCs in accordance with USEPA Method TO-15.

#### **4.3 Groundwater Sampling**

Groundwater samples will be collected from cased monitoring wells no sooner than two weeks following well development. The depth to water elevation will be measured with an electronic conductivity meter. Dedicated polyethylene tubing will be inserted within the casing of the monitoring well. A peristaltic pump will be utilized to purge and sample the groundwater well. Groundwater samples will be collected utilizing low-flow techniques in accordance with USEPA guidance for Low-Stress (Low-Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells (EPASOP-GW4, Revised 9/19/17).



The groundwater samples will be placed into laboratory supplied sampling containers. Nitric acid will be utilized as a preservative for total Metals. The samples will be placed in a chilled cooler pending refrigeration. A courier will be utilized to transport the samples to the designated analytical laboratory. Proper chain of custody documentation will accompany the samples.

Following sample collection, boreholes not converted into monitoring wells will be backfilled with soil cuttings, if appropriate and an upper bentonite seal and capped with concrete. Contaminated soil cuttings will be placed in sealed and labeled DOT approved 55-gallon drums pending off-site disposal at a permitted facility.

#### **4.4 Indoor and Outdoor Air Sampling**

Indoor air samples will be collected by placing 6-Liter stainless steel Summa canisters on surfaces approximately 3 feet above the floor. Each Summa canister will be equipped with a flow regulator set to a flow rate of approximately 0.0125 liters per minute. The canisters will be opened to initiate sampling, which will continue for approximately 8 hours until the canisters are almost full and the regulators are closed.

#### **5.0 SAMPLE CUSTODY AND DOCUMENTATION**

Each day that samples are collected, a chain-of-custody/request for analysis form will be completed and submitted to the laboratory with samples to be analyzed. A copy of the chain-of-custody will be retained by the Project Manager. The chain-of-custody will include the project name, sampler's signature, sample IDs, date and time of sample collection, and analysis requested.

Samples will be packaged and shipped in a manner that maintains sample preservation requirements during transport (i.e., ice to keep samples cool until receipt at the laboratory), ensures that sample holding times can be achieved by the laboratory, and prevents samples from being tampered with.

If a commercial carrier ships samples, a bill of lading (waybill) will be used as documentation of sample custody. Receipts for bills of lading and other documentation of shipment shall be maintained as part of the permanent custody documentation. Commercial carriers are not required to sign the chain-of-custody as long as it is enclosed in the shipping container and evidence tape (custody seal) remains in place on the shipping container.

Identification and documentation of samples are important in maintaining data quality. Strict custody procedures are necessary to ensure the integrity of the environmental samples. Sections below address sample identification, packaging, shipping, and documentation.

### **5.1 Sample Identification System**

The method of identification of a sample depends on the type of measurement or analysis performed. When field screening measurements (e.g., vacuum pressure, flow rate) are made, data are recorded directly in logbooks. Identifying information such as project name, sample location and depth, date and time, name of sampler, field observations, remarks, etc. shall be recorded.

Each sample collected for off-site laboratory analysis during the field investigation should be specifically designated for unique identification. Samples should be identified using a letter code to indicate sample collection methodology. A letter code (see below) will follow, along with the name and/or number that identifies the specific location where the sample was collected. Field equipment blanks will be denoted by the letter code “FB” and trip blanks with “TB”. Sample collection date and time should be recorded in the field logbook, chain of custody as well as the sample label.

Letter code prefixes for RIWP activities are as follows:

SB	Delineation Soil Sample
FB	Field Blank Sample
TB	Trip Blank Sample

At a minimum, all location and identification information for the samples shall be recorded in the field sampling logbook, and on the appropriate chain of custody record form for shipment.

## **5.2 Sample Custody and Packaging**

Sample custody shall be strictly maintained and carefully documented each time sample material is collected, transported, received, prepared, and analyzed. Custody procedures are necessary to ensure the integrity of the samples, and samples collected during monitoring activities must be traceable from the time the samples are collected until they are disposed of and/or stored, and their derived data are used in the subsequent monitoring report. Sample custody is defined as (1) being in the sampler's possession; (2) being in the sampler's view, after being in the sampler's possession; (3) being locked in a secured container, after being in the sampler's possession; and (4) being placed in a designated secure area.

### **5.2.1 Field Custody and Packaging Procedures**

Field custody procedures shall be implemented for each sample collected. The field sampler shall be responsible for the care and custody of the samples until they are properly transferred or dispatched. To maintain the integrity of the samples, the samples are to be stored in a designated, secure area and/or be custody sealed in the appropriate containers prior to shipment.

Each environmental sample will be properly identified and individually labeled. Labels will be filled out in indelible ink with at least the following information: sample identification (see Section 5.1), type and matrix of sample, date and time of sample acquisition, name of sampler, analysis required, and preservation (as necessary). The sample label will be securely attached to the sample container.

A laboratory supplied completed chain of custody form will be included with all samples.

### **5.2.2 Laboratory Custody Procedures**

The following generally summarizes laboratory custody procedures; more detailed operations are presented in the laboratory's SOPs.

- A designated sample custodian will accept custody of the shipped samples and will verify that the information on the sample labels matches that on the chain of custody record(s).
- The laboratory custodian will use the sample label number or assign a unique laboratory number to each sample label and will assure that all samples are transferred to the proper analyst or stored in the appropriate secure area; and,
- Laboratory personnel are responsible for the care and custody of samples from the time they are received until the sample is exhausted or returned to the custodian or sample storage area. Internal chain of custody records shall be maintained by the laboratory.

The laboratory shall communicate with ACT personnel by telephone, email or facsimile, as necessary, throughout the process of sample scheduling, shipment, analysis and data reporting, to ensure that samples are properly processed. If a problem occurs during sample shipment or receipt (e.g., a sample container arrives broken or with insufficient sample volume, a sample was not preserved correctly, a sample was not listed on the chain of custody, etc.), the laboratory shall immediately notify the appropriate person for resolution.

Samples received by the laboratory will be retained until analyses and QA checks are completed. When sample analyses and necessary QA checks have been completed, the unused portion of the sample and the sample container must be disposed of properly by the laboratory. All identifying tags, data sheets, and laboratory records shall be retained as part of the permanent documentation.

## **6.0 ANALYTICAL REQUIREMENTS**

Analytical services will be provided by a NYSDOH ELAP approved laboratory. The laboratory will follow NYSDEC Analytical Sampling Protocol (ASP) and provide data in results

only format, with the exception of the final round of sampling in which data will be reported with Category B deliverables (ASP-B). Analyses not available using ASP-B will be provided in results only format.

## **7.0 DECONTAMINATION PROCEDURES**

In order to minimize the potential for cross-contamination, non-dedicated drilling and sampling equipment shall be properly decontaminated prior to and between sampling/drilling locations.

Decontamination of sampling equipment will be kept to a minimum in the field, and wherever possible, dedicated disposable sampling equipment will be used. Decontamination fluids will be stored in US Department of Transportation (DOT)-approved 55-gallon drums or in an on-site storage tank (liquids only) until proper disposal.

Personnel directly involved in equipment decontamination will wear protective clothing in accordance with the project Health and Safety Plan (HASP).

### **7.1 General Procedures**

Drilling equipment will be decontaminated in a designated area. Sampling equipment and probes will be decontaminated in an area covered with plastic sheeting near the sampling location. Waste material generated during decontamination activities will be containerized, stored and disposed of. Decontamination of sampling equipment shall be kept to a minimum, and wherever possible, dedicated sampling equipment shall be used. Personnel directly involved in equipment decontamination shall wear appropriate protective equipment.

### **7.2 Drilling Equipment**

Drilling equipment shall be decontaminated by steam cleaning prior to performance of the first boring/excavation and between all subsequent borings/excavations. This shall include hand

tools, casing, augers, drill rods, temporary well material and other related tools and equipment. Water used during drilling and/or steam cleaning operations shall be from a potable source.

### **7.3 Sampling Equipment**

Sampling equipment (i.e., trowels, knives, split-spoons, bowls, hand augers, etc.) will be decontaminated prior to each use as follows:

- Laboratory-grade glassware detergent and tap water scrub to remove visual contamination
- Generous tap water rinse
- Distilled water rinse

## **8.0 QUALITY ASSURANCE/QUALITY CONTROL SAMPLE REQUIREMENTS**

This section will discuss the type and quantities of QA/QC samples to be utilized during implementation of the field program.

### **8.1 Field Quality Control Samples**

The subsections below present general information and guidance on field QC samples, including definition and frequency of QC blanks. Field QC samples will be labeled and shipped according to the procedures outlined in Section 5.1.

#### **8.1.1 Field Blanks**

A field blank will be collected to evaluate the potential for contamination of environmental samples from inadequate decontamination of field equipment. Field blanks shall be collected by pouring laboratory supplied distilled/deionized (DI) water over and/or through decontaminated non-disposable equipment or disposable equipment, and collecting the rinsate. Field blanks will be collected at a frequency of one per decontamination event per type of sampling equipment, not to exceed one per day per sample matrix. Preservation and analysis of field blanks will be identical to that of the associated environmental samples.

### **8.1.2 Trip Blanks**

A trip blank serves to detect possible cross-contamination of samples resulting from handling, storage and shipment procedures. Blanks are stored by the laboratory under the same conditions as the environmental samples. A trip blank will accompany each cooler containing samples submitted for VOC analysis (if any), and will be preserved identically to the associated environmental samples. Due to the lack of VOC impact identified at the site, it is not anticipated that trip blanks will be necessary during the final soil sampling.

### **8.1.3 Temperature Blanks**

A temperature blank will be sent with each cooler of samples to be analyzed for VOCs to verify that the cooler temperature has been maintained at 4°C. One non-preserved VOA vial shall be filled with either potable or DI water, and labeled with "NYSDEC cooler temperature indicator" and the date. If supplied, the laboratory's temperature blank will be used in place of the VOA vial. The laboratory shall record the temperature of the blank water on the chain of custody immediately upon cooler arrival.

### **8.1.4 Field Environmental Duplicate Samples**

Duplicate environmental samples will be analyzed by the off-site laboratories to evaluate the reproducibility of the sampling procedures. Duplicate samples will be collected at a rate of five percent of the total samples for each specific matrix for each type of analysis (i.e., one duplicate for up to every 20 samples). The duplicate samples will be collected from the same location and at the same time as the original environmental sample; however, the duplicated samples will be "coded" in such a manner that the laboratory will not be able to determine of which original field sample they are duplicated (i.e., "blind" duplicates). For example, the duplicate sample of location EP001 may be "coded" as location EP051, as long as there are not more than fifty endpoint samples being collected (i.e., the coded sample name should not be assigned a legitimate sample location identification). An explanation of the duplicate "coding" must be written in the field logbook. Preservation and analysis of duplicate samples will be identical to those for the environmental samples. Precision of field data will be evaluated based on the calculation of Relative Percent

Difference (RPD), with acceptance criteria of 25 percent for the off-site laboratory samples. Blind duplicate samples will be collected in the same manner as the environmental samples.

## **8.2 Laboratory Quality Control Samples**

General information and guidance on laboratory QC samples are presented in the subsections below. A summary of QC procedures, frequencies, criteria, and corrective actions for the samples, as determined by the applicable method guidelines.

### **8.2.1 Method Blanks/Preparation Blanks**

A method blank (for organics) or a preparation blank (for inorganics) will be analyzed with every batch of samples to ensure that contamination has not occurred during the analytical process. Method blanks consist of a portion of analyte-free solid that is processed through the entire sample procedure the same as an environmental sample.

### **8.2.2 Laboratory Control Samples**

A laboratory control sample (LCS) consists of an analyte- solid phase sample that is spiked with target analytes at a known concentration. The LCS shall be analyzed 1 per 20 samples to assess the ability of the analytical procedure to generate a correct result without matrix effects/interferences affecting the analysis. The percent recoveries for the LCS compounds will be compared to QC limits stated in the appropriate methods. MS/MSD will be collected on groundwater and soil samples at a rate of 1 per 20 samples per matrix.

### **8.2.3 Surrogate Compounds**

Surrogates (also known as System Monitoring Compounds) are compounds of known concentrations added to every organic analysis sample for analytical chromatography methods at the beginning of the sample preparation to monitor their recovery. Surrogate recoveries will be used to assess potential matrix interferences and to monitor any potential effects of sample



preparation and analysis on final analyte concentrations. The recovery values will be compared to values established in the applicable methodologies to determine the validity of the data.

#### **8.2.4 Internal Standards**

Internal standards are used to provide instrument correction for variation in instrument performance and injection volumes. Internal standards also establish relative response factors for the analytes.

### **9.0 INSTRUMENT CALIBRATION AND PREVENTIVE MAINTENANCE**

#### **9.1 Calibration**

Equipment will be inspected and approved by the Field Team Leader before being used. Equipment will generally be calibrated in the field to factory specifications. Monitoring equipment will be calibrated following manufacturers recommended schedules. Daily field response checks and calibrations will be performed as necessary following manufacturers standard operating procedures. Equipment calibrations will be documented in a designated field logbook.

The Field Team Leader or his designee will be responsible for ensuring that instrumentation is of the proper range, type and accuracy for the measurement/test being performed, and that all of the equipment are calibrated at their required frequencies, according to their specific calibration protocols/procedures.

All field measurement instruments must be calibrated according to the manufacturer's instructions prior to the commencement of the day's activities. Exceptions to this requirement shall be permitted only for instruments that have fixed calibrations pre-set by the equipment manufacturer. Calibration information shall be documented on in a designated field logbook. Information to be recorded includes the date, the operator, and the calibration standards (concentration, manufacturer, etc.). All project personnel using measuring equipment or

instruments in the field shall be trained in the calibration and usage of the equipment and are personally responsible for ensuring that the equipment has been properly calibrated prior to its use.

In addition, all field instruments must undergo response verification checks at the end of the day's activities and at any other time that the user suspects or detects anomalies in the data being generated. The checks consist of exposing the instrument to a known source of analyte (e.g., the calibration solution), and verifying a response. If an unacceptable instrument response is obtained during the check the data shall be labeled suspect, the problem documented in the site logbook, and appropriate corrective action taken.

Any equipment found to be out of calibration shall be recalibrated. When instrumentation is found to be out of calibration or damaged, an evaluation shall be made to ascertain the validity of previous test results since the last calibration check. If it is necessary to ensure the acceptability of suspect items, the originally required tests shall be repeated (if possible), using properly calibrated equipment. Any instrument consistently found to be out of calibration shall be repaired or replaced.

## **9.2 Preventive Maintenance**

Field equipment shall be maintained at its proper functional status in accordance to manufacturer manual specifications. A check of the equipment shall be performed before field activities begin, and any potential spare parts (e.g., batteries, connectors, etc.) and maintenance tools will be brought on site, to minimize equipment downtime during the field activities. Visual checks of the equipment will be conducted on a daily basis. Routine preventive maintenance shall be performed to assure proper operation of the equipment. Any maintenance performed on field equipment will be documented in the designated field logbook, and shall be undertaken by personnel who have the appropriate skills and/or training in the type of maintenance required.

## **10.0 DATA REDUCTION, VALIDATION AND REPORTING**

Standard methods and references will be used as guidelines for data handling, reduction, validation, and reporting. All data for the project will be compiled and summarized with an independent verification at each step in the process to prevent transcription/typographical errors. Any computerized entry of data will also undergo verification review.

## **10.1 Data Reduction**

### **10.1.1 Field Data Reduction**

Field instrumentation data will be reported by site personnel in field logbooks associated with the monitoring event. At the end of each monitoring event, the field screening data results shall be summarized in tabulated form, as warranted.

### **10.1.2 Laboratory Data Reduction**

All data generated by the off-site laboratory will be reported in a specified format containing all required elements to perform data validation. Analytical results shall be presented on standard NYSDEC Analytical Sampling Protocol (ASP) forms or equivalents and reported with Category B (ASP-B) deliverables and include the dates the samples were received and analyzed, and the actual methodology used with the exception of interim sampling in which data will be reported in Category A (ASP-A) format.

Laboratory QA/QC information required by the method protocols will be compiled, including the application of data QA/QC qualifiers as appropriate. In addition, laboratory worksheets, laboratory notebooks, chains-of-custody, instrument logs, standards records, calibration records, and maintenance records, as applicable, will be provided in the laboratory data packages to determine the validity of data.

### **10.1.3 Project Data Reduction**

Following receipt of the laboratory analytical results by Advanced Cleanup Technologies, Inc., the data results will be compiled and presented in an appropriate tabular form. Where appropriate, the impacts of QA/QC qualifiers resulting from laboratory or external validation reviews will be assessed in terms of data usability.

## **10.2 Data Usability and Validation**

The main purpose of the data is for use in defining the extent of contamination at the site, to aid in evaluation of potential human health and ecological exposure assessments, and to support remedial action decisions. Based upon this, data use usability and validation will be performed as described below. Complete data packages will be archived in the project files, and if deemed necessary additional validation can be performed using procedures in the following sections. It is anticipated that data validation will be performed on data collected during the final round of sampling, only.

### **10.2.1 Data Usability and Validation Requirements**

Data usability and validation are performed on analytical data sets, primarily to confirm that sampling and chain-of-custody documentation are complete, sample IDs can be tied to specific sampling locations, samples were analyzed within the required holding times, and analyses are reported in conformance to NYSDEC ASP data deliverable requirements as applicable to the method utilized.

All data should be provided to NYSDEC in draft form prior to being validated by a third party data validator namely LABORATORY DATA CONSULTANTS, INC. and qualifications for preparing the DUSR report is provided in Appendix F. The data validation report should be included in the PRR.

### **10.2.2 Data Usability and Validation Methods**

If deemed necessary by NYSDEC, a data usability evaluation for the data collected during the RIWP and a data usability summary report (DUSR) will be prepared. The DUSR will be prepared in accordance with USEPA National Function Guidelines for Organic Superfund Methods Data Review, January 2017 (EPA-540-R-2017-002); USEPA National Function Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA-540-R-2017-002); and USEPA Region 2 SOPs.

## **11.0 CORRECTIVE ACTION**

Review and implementation of systems and procedures may result in recommendations for corrective action. Any deviations from the specified procedures within approved RIWP due to unexpected site-specific conditions shall warrant corrective action. All errors, deficiencies, or other problems shall be brought to the immediate attention of Jason Stewart of ACT, who in turn shall contact the Quality Assurance/Data Quality Manager or her designee.

Procedures have been established to ensure that conditions adverse to data quality are promptly investigated, evaluated and corrected. These procedures for review and implementation of a change are as follows:

- Define the problem.
- Investigate the cause of the problem.
- Develop a corrective action to eliminate the problem, in consultation with the personnel who defined the problem and who will implement the change.
- Complete the required form describing the change and its rationale (see below for form requirements).
- Obtain all required written approvals.
- Implement the corrective action.
- Verify that the change has eliminated the problem.

During the project, all changes to the SI monitoring program will be documented in field logs/sheets and Jason Stewart of ACT will be advised.

If any problems occur with the laboratory or analyses, the laboratory must immediately notify Jason Stewart of ACT, who will consult with other ACT project staff. All approved corrective actions shall be controlled and documented.

All corrective action documentation shall include an explanation of the problem and a proposed solution which will be maintained in the project file or associated logs. Each report must be approved by the necessary personnel (e.g., the PM) before implementation of the change occurs. Jason Stewart of ACT shall be responsible for controlling, tracking, implementing and distributing identified changes.

**Analytical Methods/Quality Assurance Summary Table**

Sample ID	Matrix	Sample Interval	Analytical Parameter	Analytical Method	Preservation Method	Container Type/Volume	Sample Holding Time
<b>RISB-1</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon-Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon-Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days
<b>RISB-2</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon-Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon-Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days

<b>RISB-3</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days
<b>RISB-4</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days



<b>RISB-5</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days
<b>RISB-6</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days

<b>RISB-7</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days
<b>RISB-8</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days

<b>RISB-9</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days
<b>RISB-10</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days

<b>RISB-11</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days
<b>RISB-12</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days

<b>RISB-13</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days
<b>RISB-14</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days
<b>RISB-15</b>	Soil	0-6", 12-24"bgs, deeper intervals when evidence, water table surface	VOCs	EPA Method 8260	Cool 4°C, freeze at lab within 48 hours	2 x VOA vials with 5 ml DI Water Teflon- Lined cap	14 days
					Cool 4°C	1 x VOA vial unpres., Teflon- Lined cap	14 days

					Cool 4°C	1 x VOA vial with 5 ml MeOH, Teflon-Lined cap	14 days
			SVOCs, Pesticides/PCBs, TAL Metals, cyanide	EPA Methods 8270, 8081/8082, 6010/7473,	Cool 4°C	2 x 8oz. container	14 days
			PFAS	EPA Method 537	Cool 4°C	250 ml PFAS Container	14 days

<b>RIMW-1</b>	Groundwater	-	VOCs	EPA Methods 8260	Cool, 4°C	1 x VOA Kit	14 days
			SVOCs	EPA Methods 8270	Cool, 4°C	2x 1-Liter Ambers	7 days
			1,4-Dioxane in SIM mode	EPA Method 8270-SIM	Cool, 4°C	1 x 1-Liter Ambers	7 days
			Pesticides & PCBs	EPA Method 8081/8082	Cool, 4°C	2 x 1-Liter Ambers	7 days
			PFAS	EPA Method 537	Cool, 4°C	250 ml PFAS Container	14 days to extract, 28 days to analysis
			TAL Metals, cyanide	EPA Method 6010/7473	Cool, 4°C	2 x 250 ml containers( 1 with HNO3 and 1 with NaOH)	6 months for TAL Metals, 14 days for cyanide
<b>RIMW-2</b>	Groundwater	-	VOCs	EPA Methods 8260	Cool, 4°C	1 x VOA Kit	14 days
			SVOCs	EPA Methods 8270	Cool, 4°C	2x 1-Liter Ambers	7 days
			1,4-Dioxane in SIM mode	EPA Method 8270-SIM	Cool, 4°C	1 x 1-Liter Ambers	7 days
			Pesticides & PCBs	EPA Method 8081/8082	Cool, 4°C	2 x 1-Liter Ambers	7 days
			PFAS	EPA Method 537	Cool, 4°C	250 ml PFAS Container	14 days to extract, 28 days to analysis
			TAL Metals, cyanide	EPA Method 6010/7473	Cool, 4°C	2 x 250 ml containers( 1 with HNO3 and 1 with NaOH)	6 months for TAL Metals, 14 days for cyanide

<b>RIMW-3</b>	Groundwater	-	VOCs	EPA Methods 8260	Cool, 4°C	1 x VOA Kit	14 days
			SVOCs	EPA Methods 8270	Cool, 4°C	2x 1-Liter Ambers	7 days
			1,4-Dioxane in SIM mode	EPA Method 8270-SIM	Cool, 4°C	1 x 1-Liter Ambers	7 days
			Pesticides & PCBs	EPA Method 8081/8082	Cool, 4°C	2 x 1-Liter Ambers	7 days
			PFAS	EPA Method 537	Cool, 4°C	250 ml PFAS Container	14 days to extract, 28 days to analysis
			TAL Metals, cyanide	EPA Method 6010/7473	Cool, 4°C	2 x 250 ml containers( 1 with HNO3 and 1 with NaOH)	6 months for TAL Metals, 14 days for cyanide
<b>RIMW-4</b>	Groundwater	-	VOCs	EPA Methods 8260	Cool, 4°C	1 x VOA Kit	14 days
			SVOCs	EPA Methods 8270	Cool, 4°C	2x 1-Liter Ambers	7 days
			1,4-Dioxane in SIM mode	EPA Method 8270-SIM	Cool, 4°C	1 x 1-Liter Ambers	7 days
			Pesticides & PCBs	EPA Method 8081/8082	Cool, 4°C	2 x 1-Liter Ambers	7 days
			PFAS	EPA Method 537	Cool, 4°C	250 ml PFAS Container	14 days to extract, 28 days to analysis
			TAL Metals, cyanide	EPA Method 6010/7473	Cool, 4°C	2 x 250 ml containers( 1 with HNO3 and 1 with NaOH)	6 months for TAL Metals, 14 days for cyanide



<b>RIMW-5</b>	Groundwater	-	VOCs	EPA Methods 8260	Cool, 4°C	1 x VOA Kit	14 days
			SVOCs	EPA Methods 8270	Cool, 4°C	2x 1-Liter Ambers	7 days
			1,4-Dioxane in SIM mode	EPA Method 8270-SIM	Cool, 4°C	1 x 1-Liter Ambers	7 days
			Pesticides & PCBs	EPA Method 8081/8082	Cool, 4°C	2 x 1-Liter Ambers	7 days
			PFAS	EPA Method 537	Cool, 4°C	250 ml PFAS Container	14 days to extract, 28 days to analysis
			TAL Metals, cyanide	EPA Method 6010/7473	Cool, 4°C	2 x 250 ml containers( 1 with HNO3 and 1 with NaOH)	6 months for TAL Metals, 14 days for cyanide
<b>RIMW-6</b>	Groundwater	-	VOCs	EPA Methods 8260	Cool, 4°C	1 x VOA Kit	14 days
			SVOCs	EPA Methods 8270	Cool, 4°C	2x 1-Liter Ambers	7 days
			1,4-Dioxane in SIM mode	EPA Method 8270-SIM	Cool, 4°C	1 x 1-Liter Ambers	7 days
			Pesticides & PCBs	EPA Method 8081/8082	Cool, 4°C	2 x 1-Liter Ambers	7 days
			PFAS	EPA Method 537	Cool, 4°C	250 ml PFAS Container	14 days to extract, 28 days to analysis
			TAL Metals, cyanide	EPA Method 6010/7473	Cool, 4°C	2 x 250 ml containers( 1 with HNO3 and 1 with NaOH)	6 months for TAL Metals, 14 days for cyanide
<b>RISV-1</b>	Soil Vapor	-	VOCs	EPA Method TO-15	Ambient	5l Summa Canister	30 days
<b>RISV-2</b>	Soil Vapor	-	VOCs	EPA Method TO-15	Ambient	5l Summa Canister	30 days
<b>RISV-3</b>	Soil Vapor	-	VOCs	EPA Method TO-15	Ambient	5l Summa Canister	30 days

<b>RISV-4</b>	Soil Vapor	-	VOCs	EPA Method TO-15	Ambient	5l Summa Canister	30 days
<b>RISV-5</b>	Soil Vapor	-	VOCs	EPA Method TO-15	Ambient	5l Summa Canister	30 days

<b>Matrix</b>	<b>Soil</b>	<b>Groundwater</b>	<b>Soil Vapor</b>
<b>Number of Samples</b>	15	6	5
<b>Number of Duplicate Samples</b>	5% of total samples or 1 per 20 samples	5% of total samples or 1 per 20 samples	-
<b>Number of Field Blanks</b>	1 per day of sampling	1 per day of sampling	-
<b>Number of Trip Blanks</b>	1 per cooler	1 per cooler	-
<b>Number of MS/MSD Pairs</b>	1 per 20 samples	1 per 20 samples	-

## **Appendix D**

### **Personnel Qualifications**



## CURRICULUM VITAE

**PAUL P. STEWART**  
**ADVANCED CLEANUP TECHNOLOGIES, INC.**  
**110 MAIN STREET, SUITE 103**  
**PORT WASHINGTON, NY 11050**  
**BUSINESS: (516)-441-5800 x102**

### EDUCATION:

Professor	Polytechnic Institute, (NY) Environmental Law and Regulations	1996- 1999
J.D.	Vermont Law School, (VT) Environmental Law	1982
M.S.	Tufts University, (MA) Environmental Health Engineering	1979
B.S.	Boston University, (MA) Biology	1978

### PROFESSIONAL HISTORY:

PRESIDENT, ADVANCED CLEANUP TECHNOLOGIES, INC.

Joined the firm in February, 1989 with extensive expertise in the investigation of environmental contamination incidents. Has been employed by industrial facilities, retail petroleum distributors, insurance companies and financial institutions to investigate past and present chemical handling practices and conditions at subject locations.

Mr. Stewart has developed a Forensics department which directs all investigations into the occurrence of contamination and sources of its release. These services are geared towards identifying the nature, extent and causes of environmental contamination. He is also affiliated with Polytechnic Institute of New York where he is engaged in joint research into groundwater flow, chemical transport modeling and remediation as applied to major chemical releases.



**PROFESSIONAL HISTORY** (Continued)

ASSOCIATE ATTORNEY     RIVKIN, RADLER, DUNNE & BAYH     1985-  
EAB Plaza, Uniondale, NY 11556     1989

A member of the Science/Causation Team and Environmental Practice Group with extensive experience in groundwater investigations and major environmental litigation. He coordinated the development of major scientific and technical issues involved in complex hazardous waste and toxic tort law suits including Agent Orange, Shell and many others.

His responsibilities included the allocation of liabilities and costs for the release of chemicals into the environment and developing appropriate levels of remedial action. He was also responsible for researching and evaluating evidence of property damage and environmental exposure in conjunction with the Real Estate Department, where he developed environmental due diligence procedures for commercial real estate transactions.

His additional responsibilities included investigating companies' chemical handling, transport and disposal practices and impacts on their regulatory requirements. This work involved surveying industrial activities and chemical release incidents at numerous facilities including literature research, public agency records review and the coordination of appropriate soil, soil vapor and ground water investigations. He also made appearances before federal, state and local regulatory agencies and successfully negotiated the resolution of regulatory compliance issues under numerous statutory frameworks.

ASSOCIATE ATTORNEY     ESCHEN & ESCHEN     1983-  
North Broadway, Hicksville, NY     1985

Responsible for personal injury and property damage trials and depositions. Successfully perfected numerous appellate briefs and issues including negligence, contract and insurance law. Appearance before regulatory and penal tribunals. Applications of land use development and management law.

INTERN EXAMINER     U.S. PATENT & TRADEMARK OFFICE 1981  
Washington, D.C.

Screened applications for statutory compliance. Prepared legal memoranda in support of official determinations in pending actions.



**PROFESSIONAL HISTORY** (Continued)

**AFFILIATIONS:**

National Water Well Association  
American Chemical Society  
American Association for the Advancement of Science  
American Society of Testing and Materials  
American Bar Association  
New York Bar Association

**CERTIFICATIONS AND LICENSES:**

New Jersey Certification in Subsurface Evaluations  
New York State Restricted Handler Class II  
Portable Gas Chromatography Operator  
Licensed to Practice Law in New York and Florida

**SELECT PRESENTATIONS:**

The Scene of the Accident: Forensic Engineering in Hazardous Waste Litigation, Purdue University Industrial Waste Symposium, in Indiana, May 10, 1988.

A Case Study of Petroleum Contamination, Environmental Claim Seminar, St. Paul, Minnesota, May 14, 1990.

**PUBLICATIONS:**

Numerous technical reports and articles on environmental health engineering and science including the following:

Evaluation of an Ecological Habitat in an Urban New England Environment, 1978.

Environmental Impact Analysis, Construction of the Kennedy Memorial Library, 1978.

Pretreatment of Chromium Waste Sludge from Metal Plating Facility, 1979.

Environmental Impact Analysis, Expansion of the Block Island Sewage Treatment Plant, 1979.

Environmental Report, 11<sup>th</sup> Annual ALI-ABA Conference on Environmental Law, Vermont Law School Forum, 1981.

Official Comments, Final Environmental Impact Statement, Proposed Runaway Extension and Industrial Park Development, Lebanon Municipal Airport, Lebanon, New Hampshire, 1982.

Laboratory Scale Design, Treatment of Wastewater from Soda Manufacturing, 1985.



## **PROFESSIONAL HISTORY** (Continued)

Development of a Groundwater Evaluation Program, Hazardous Waste and Toxic Torts Law and Strategy, 1985.

The scene of the Accident: Forensic Engineering in Hazardous Waste Litigation, Journal of the Industrial Waste Symposium, Prudue University, 1988.

History of Commercial use of Methyl tert-Butyl Ether in gasoline products, 1990.

A Case Study of Petroleum Contamination, April 16, 1990.

Effect of Bentonite Diversion Wall on the Migration of Wastes at a Hazardous Waste Landfill, Sato, C., A. Protopapas, P. Stewart, June, 1991.

## **RELATED PROJECT EXPERIENCE:**

### **Beekman, New York**

Performance of an environmental services audit of on-going groundwater remediation project.

### **Bellmore, New York**

The investigation of soil and groundwater contamination associated with retail gasoline distribution facilities.

### **Brockton, Massachusetts**

Performance of a soil, soil vapor and groundwater investigation associated with a retail dry cleaning facilities.

### **Falls Village, Connecticut**

The investigation and remediation of soil and groundwater contamination associated with the release of fuel oil from an underground storage tank.

### **Garden City, New York**

The investigation and remediation of chlorinated solvent contamination associated with printing industry wastes.

### **Pineola, North Carolina**

The investigation of soil and groundwater contamination associated with the release of petroleum from a retail gasoline and bulk petroleum distribution facility.



### **Ridgefield, Connecticut**

The investigation and remediation of soil and groundwater contamination associated with the release of fuel oil from an above ground petroleum storage facility.

### **Wilmington, North Carolina**

Performance of an environmental services audit associated with on-going groundwater remedial activities involving the release of fuel oil and gasoline products.

### **EXPERT TESTIMONY:**

#### **Merrick, New York**

Provided expert trial testimony associated with the extent of ground water contamination at a former retail gasoline station.

#### **Deluth, Minnesota**

Provided expert trial testimony related to the generation, storage, disposal of wastes and the associated environmental contamination at a waste oil re-refinery.

#### **Oakgrove, Minnesota**

Provided deposition testimony related to the nature, extent and timing of ground water contamination associated with several municipal landfills.

#### **Somerset, Wisconsin**

Provided an expert affidavit related to a fuel oil spill.

#### **East Boston, Massachusetts**

Provided expert testimony at an environmental mediation related to soil and ground water contamination associated with an existing retail service station.

#### **Springfield and Billerica, Massachusetts**

Provided expert affidavits related to discharges of industrial chemicals at elevator and automotive manufacturing facilities.

#### **Brockton, Massachusetts**

Provided expert affidavits related to the discharge of chlorinated solvents at a drycleaning facility.



# Timothy Young

Versatile, resourceful, and dedicated Geologist offering extensive geologic experience in field and laboratory work with a strong foundation in leadership. Field work in diverse geographical regions including Pennsylvania, Texas, Oklahoma, West Virginia, upstate New York, and Hawaii. Specific expertise in detailed geologic sample analysis; experienced with variety of microscopes and imaging software. Highly capable of training and safety conscious in work environment. Other skills include preparing detailed field notes, diagrams for written reports and utilizing geologic tools to formulate conclusions. Self-directed, highly-motivated professional who can work effectively with cross-functional teams. Able to focus efforts and prioritize work flow under pressure and adapt effectively to different work environments. Committed to leadership, team work, quality and safety standards. Value exceeding expectations through collaborative problem solving with focus on delivering top quality products under daily deadlines.

Oceanside, NY  
young.gsx12@yahoo.com - 5166402947

## WORK EXPERIENCE

### **Founder - Senior Vice President of Field Operations - PA - Marcellus Shale**

EVOLVED WELL LOGGING LLC - Wysox, PA - September 2011 to July 2012

Founder of Evolved Well Logging, LLC. Constructed company from ground up. Composed Evolved business plan and company policies. Secured company office, employee housing and equipments for expected daily operations. Calculated all costs and expenses for prospective operations. Drafted six contracts, safety policies, field training workbooks, website, logo, terms of service, invoices, bid proposals. Researched and utilized unique groundbreaking ideas for Evolveds identity. Organized proposal meeting and presented to Shell Appalachia. Interviewed for potential field, safety and office positions.

### **Field Geologist**

HORIZON WELL LOGGING LLC - Appalachia - Marcellus Region, PA, US - May 2011 to July 2011

Graduated from Field Geologist Development Program (FGDP). Conducted geosteering, operated as field team leader and executed mud logging duties in field. Assembled and imported real time survey and gamma data from MWD into SES program. Interpreted geologic structure and well path. Provided senior geologists and drilling team with generated cross sections of pay zone with structural analysis to guide wells. Successfully and accurately analyzed and described approximately 20,000 lithology (cuttings) and core samples on 100 well sites in Appalachia Marcellus Shale region. Trained 50 new employees in field. Edited a variety of company quality standards. Designed Horizon Well Loggings "Training Guide" bolstering efficiency of training.

### **Team Leader**

HORIZON WELL LOGGING LLC - Appalachia - Marcellus Region, PA, US - January 2011 to May 2011

Assisted the Eastern Division Supervisor. Executed daily tasks as a lead logger on drilling locations and aided Supervisor with personnel assignments, trailer management, resource and equipment logistics, and customer relations. Managed daily field operations on eight assigned wells. Reviewed quality, timeliness and accuracy of team work product daily. Effectively prioritized work product, assignment spreadsheets and training under pressure in fast paced conditions. Provided geologic knowledge and troubleshooting guidance with equipments to mud loggers and trainees. Motivated strongest lead loggers to train mud logger trainees effectively and in accordance with safety and operating processes.

### **Field Supervisor**

HORIZON WELL LOGGING LLC - Appalachia - Marcellus Region, PA, US - October 2010 to January 2011

Coordinated a team of 38 mud loggers and trainees. Supervised all mud logging operations on 22 wells. Maintained daily resource and assignment spreadsheets for all operations. Close interaction with senior geologists and well site personnel. Attended confidential pre-spud meetings with three energy companies. Enforced personnel assignments, trailer management and assignments, resource and equipment logistics and customer relations. Oversaw daily mud logging reports were completed in a timely and accurate manner in accordance with operating processes and quality standards.

### **Lead Mud Logger**

HORIZON WELL LOGGING LLC - Appalachia - Marcellus Region, PA, US - December 2009 to October 2010

Recruited to participate in company's unique and innovative Field Geologist Development Program (FGDP) at on-site natural gas drilling rigs as a subcontracted field geologist for major energy companies. Reported to senior geologists from a field laboratory. Obtained, analyzed and described the lithology and accessory minerals of rock cuttings at interval depths (mud log), monitored gas data, collected isotube gas samples, and developed daily mud log reports. Evaluated prognoses, geosteering reports, mud check reports from Mud Engineers and survey and gamma data from MWD. Participated in Shell Resources Safety Orientation. Completed OSHA Standard General Industry Training and Rig Safety.

### **EDUCATION**

#### **BA in Geology**

Hartwick College - Oneonta, NY  
2005 to 2009

### **SKILLS**

MS Office, Stereo and Digital Compound Microscopes, Amscope and ToupView Microscope Camera Softwares, Wellsight Systems Mud Log V6 and Horizontal Log V6, Stoner Engineering Geosteering Software (SES), Isotube gas sampling and Isojar sampling equipment (Isotech Laboratories Inc.), iBall Bloodhound Gas Detector and Chromatograph Systems, iBall Gas Charting and Logging Software, Portable GPS systems

### **LINKS**

<http://www.evolvedgeo.com>

### **ADDITIONAL INFORMATION**

Thesis: "Examination of the Effectiveness of Diffusive Mass Transfer in Contamination of Magma."

Recipient of "Richard Dawkins Award" awarded to the most dedicated student-athlete (Lacrosse)



**Joseph Sgueglia, B.A.**

*Project Manager/Environmental Scientist*

Mr. Sgueglia is an Environmental Scientist holding a Bachelor of Arts Degree in Ecosystems and Human Impact from the State University of New York at Stony Brook. His experience focuses on managing and conducting Phase I Environmental Site Assessments, Phase II Environmental Site Investigations, Transaction Screens and Environmental Reviews on behalf of financial institutions, developers, property owners, and other interested parties. While at ACT, Mr. Sgueglia has utilized his numerous technical capabilities in a variety of functions, including coordinating and performing environmental site inspections, interacting with State and Local Regulatory Agencies, and preparing hundreds of Phase I and Phase II reports and site summary diagrams. He is well versed in the interpretation of ASTM Standard E1527-13 and is a member of ASTM's Committee E50 on Environmental Assessments.

**Yisong Yang, Ph.D**

*Environmental Engineer*

Mr. Yang comes to ACT with a wealth of experience from his time spent as a practicing engineer and in academia. Mr. Yang received his Bachelor of Engineering, Master of Engineering and Ph.D in Fluid Mechanics and Fluid Engineering from Wuhan University in China, where he also taught as an Associate Professor. He has taught and conducted research at universities for nearly two decades and went on to earn a second Ph.D in Civil and Environmental Engineering from the University of Western Ontario.

As an Engineer, Mr. Yang has worked on projects ranging from the ship lock discharge system for the Three Gorges Dam to precise forensic analysis of groundwater contamination using state-of-the-art modeling techniques. Mr. Yang is proficient in data processing, statistical analysis, computational fluid dynamics (CFD), has developed a number of fluid and gas flow modeling algorithms and is also highly experienced in conducting environmental surveys.

**Karen Friedman, B.B.A., CPA**

*Vice President*

Karen Friedman is a Certified Public Accountant with a Bachelor of Business Administration from the Ross School of Business at the University of Michigan and a post graduate degree in business management. She specializes in the planning, budgeting and scheduling of major construction projects, utilizing PERT, CPM and other project management tools to maintain control over costs and scheduling.

Prior to her long-time stay at ACT, Ms. Friedman gained widespread experience as a cost control accountant for major construction firms in New York City and throughout the United States. She is well suited and qualified to manage all budgeting and scheduling requirements, including cost estimation of proposed investigations, remedial designs, and subcontractor compensation.

Ms. Friedman has managed and audited accounts associated with multimillion dollar remediation projects. She adds a unique and significant facet to our project team to insure the efficient and successful performance of investigation and remedial activities over the duration of a project, a quality which is lacking in most competing firms.

## **Chelsea M. Farinacci**

Advanced Cleanup Technologies, Inc.  
(516) 441-5800 ext. 102  
chelseaf@act.earth

### **Summary**

Environmental science and conservation professional experience with academic credentials, leadership capability, and teamwork skills.

### **Professional Environmental Experience**

#### **Environmental Scientist**

October 2017 - Present

Advanced Cleanup Technologies – Port Washington, New York

- Perform Phase I and Phase II Environmental Site Assessments
- Professional report writing
- Assist in organization of fieldwork and reporting in Brownfield and Superfund projects

### **National Service Experience**

#### **Regional Conservation Coordinator**

August 2016 - July 2017

North Quabbin Regional Landscape Partnership - Athol, Massachusetts

- AmeriCorps Member at Mount Grace Land Conservation Trust
- Promoted land conservation within communities and organizations
- Organized forest-related educational events and workshops
- Supported land trusts in conservation and stewardship projects

### **Research Experience**

#### **TRIO Ronald E. McNair Scholar**

May 2015 - August 2015

- Summer of full-time funded research project on freshwater at Clarkson University
- Studied bacterial contamination and other characteristics of Raquette River water
- Practiced field sampling and laboratory techniques
- Presented at research conferences
- 2016 Academically Outstanding Senior Award

### **Education**

Clarkson University - Potsdam, New York

Bachelor of Science, Environmental Science and Policy – May 2016

- Minor in Biology
- Graduated with Distinction

### **Leadership and Teamwork Skills**

- Institute for a Sustainable Environment- Environmental Science and Policy Leadership Award 2016
- Vice President and Secretary of Clarkson University's Environmental Conservation Organization
- Served on the Sustainability Fund Review Board for the Clarkson Institute for a Sustainable Environment: Observed, advised, and approved student environmental initiative campus projects
- Team Captain of Clarkson University's 2014 and 2015 NCAA Division III Cross Country
- Member of the U.S. Collegiate Skiing Association 2016 Nordic Skiing National Championship winning team
- Assistant Coach -Pioneer Valley Regional School Varsity Track and Field

## Contact

jastew1011@gmail.com

[www.linkedin.com/in/jasonstewart4](http://www.linkedin.com/in/jasonstewart4)  
(LinkedIn)

## Top Skills

PTC Creo

CATIA

CATIA FEA

# Jason Stewart

Project Manager/EIT Advanced Cleanup Technologies  
Inc. Port Washington, New York

## Experience

Advanced Cleanup Technologies, Inc.  
Project Manager  
August 2019 - Present

- Manages fieldwork for and design of SSDS installations
- Professional Report Writing
- Assist in organization of fieldwork and reporting for Brownfield and Superfund projects

Ford Motor Company  
3 years 2 months

Core Calibration Engineer  
April 2019 - August 2019 (5 months)

Assisted electrified powertrain calibration teams with data analysis

PMT Engineer  
September 2018 - April 2019 (8 months)

Electric Motor Calibration Engineer  
March 2018 - September 2018 (7 months)

Core Calibration Engineer  
July 2017 - March 2018 (9 months)

Systems Engineer  
January 2017 - July 2017 (7 months)

D&R Engineer  
July 2016 - January 2017 (7 months)

Volvo Construction Equipment  
Pipelayer Product Platform Intern  
January 2015 - June 2015 (6 months)  
Shippensburg, PA

- Modeled lightweight digital mock-ups for two Pipelayer machines

- Designed and analyzed new boom designs for a future concept vehicle using FEA
- Proposed various cost and weight reduction projects on structural components with potential savings of over \$3000 per unit
- Developed SQL-based phone load chart calculator application for the sales team and customers
- Performed several investigations on machine load performance and developed a machine performance calculator
- Supported the sales and marketing team with requests for machine and competitor information and analysis
- 3D printed a full vehicle scale model concept machine with interchangeable parts and several degrees of freedom
- Drafted 2D part, assembly and weldment engineering drawings according to corporate standards

### Institute for Software Integrated Systems

#### Student Intern

June 2014 - August 2014 (3 months)

- Developed modules for Google's Project Ara smartphone
- Used software developed at ISIS to prototype and build two smartphone modules
- Selected by Google to receive 1 of 50 Ara early development boards for our module ideas
- Created functional prototypes for glucometer and IR blaster modules

### Vanderbilt University

#### Research Assistant

January 2014 - May 2014 (5 months)

Greater Nashville Area

- Assisted with ongoing project development
- Developed and machined prototypes for a patentable Device for geriatrics

### Advanced Cleanup Technologies inc.

#### Research and Development Assistant

September 2009 - May 2014 (4 years 9 months)

Port Washington, NY

- Performed research on remote telemetry systems using Labview and microcontrollers

- Supervised group of interns developing remote telemetry systems that reduced costs by 80% from comparable commercial systems and added flexibility
- Improved the efficiency of report writing by 40% with visual basic computer-aided macros

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## Education

University of Michigan - Rackham Graduate School  
Master of Science in Engineering (MSE) , Mechanical  
Engineering · (2017 - 2019)

Vanderbilt University  
Bachelor's Degree, Mechanical Engineering · (2012 - 2016)



## **Resumes of Key Staff**

- Stella Cuenco, Senior Chemist
- Pei Geng, Senior Chemist
- Richard Amano, Principal Chemist
- Linda Rauto, Principal Chemist
- Christina Rink-Ashdown, Inorganic Chemist
- Shauna McKellar, Chemist/EDD Specialist
- Linda Ta, Chemist





# LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760/827-1100 Fax: 760/827-1099

## RESUME STELLA S. CUENCO

### EDUCATION

B.S. Chemistry, 1991  
University of the Philippines (UP)

### PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.  
Senior Chemist  
1996 to present

Ceimic Corporation  
GC/MS Chemist  
1996

Analytical Technologies, Inc.  
GC/MS VOA Group Leader  
1992 to 1996

Analytical Technologies, Inc.  
GC/MS Chemist  
1991 to 1992

Natural Products Research, UP  
Research Assistant  
1990 to 1991

### REPRESENTATIVE EXPERIENCE

Ms. Cuenco has over 27 years combined environmental laboratory and data validation experience. Her experience includes performance of data validation in the GC and GC/MS areas for major Federal projects. She has performed large validation projects under Boeing, Navy Southwest, Northwest and Pacific Division, EPA Region IX ESAT, USACE and AFCEE/AFCEC programs. Her laboratory experience includes hands-on CLP and EPA analysis of GC and GC/MS volatile organic compounds.

Specifically, Ms. Cuenco has over 22 years organic data validation experience using USEPA (including Region III) functional guidelines and other applicable documents.

- As senior chemist with LDC, Ms. Cuenco specializes in the data validation and contract compliance screening of gas chromatography-mass spectrometry analyses as well as gas chromatography analyses. She has a thorough knowledge and understanding of gas chromatography and gas chromatography-mass spectrometry (GCMS) and high resolution GCMS methods referenced in EPA CLP, SW-846, EPA 500, 600 and 1600 series documents. She has performed large data validation under Boeing, Navy Southwest and Pacific Divisions and EPA Region IX ESAT, USACE and AFCEE/AFCEC projects.



## **LABORATORY DATA CONSULTANTS, INC.**

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Ms. Cuenco has over 5 years experience in an environmental laboratory performing the analysis of organic parameters.

- As GC/MS chemist at Ceimic Corporation, a full service environmental analytical chemistry facility, Ms. Cuenco performed GC and GC/MS volatile analyses. She was responsible for the final reporting of analytical data for this section.
- As GC/MS VOA Group Leader at Analytical Technologies Inc., a full service environmental analytical chemistry facility, Ms. Cuenco was responsible for all GC/MS functions which included overseeing daily operations, training staff, final reporting of analytical data, and compliance with method requirements.
- As research assistant at Natural Products Research, UP, Ms. Cuenco researched chemical literature for plants with known medicinal properties as well as performed microbiological and pharmacological tests on plant extracts.



RESUME  
PEI GENG

EDUCATION

M.S. Organic Chemistry, 1989  
Sam Houston State University

B.S. Environmental Chemistry, 1983  
Nankai University

PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.  
Senior Chemist  
1997 to present

Ceimic Corporation  
GC/MS and GC Chemist  
1996 to 1997

PACE Analytical Service Inc.  
GC/MS and GC Chemist  
1990 to 1996

REPRESENTATIVE EXPERIENCE

Ms. Geng has over 28 years combined environmental laboratory and data validation experience. Her experience includes performance of data validation in the GC and GC/MS areas for major Federal projects. She has performed large validation projects under Boeing, Navy Southwest, Northwest and Pacific Division, EPA Region IX ESAT, USACE and AFCEE/AFCEC programs. Her laboratory experience includes hands-on CLP and EPA analysis of GC and GC/MS volatile organic compounds.

Specifically, Ms. Geng has over 21 years organic data validation experience using USEPA CLP (including Region III) functional guidelines and other applicable documents.

- As chemist with LDC, Ms. Geng specializes in the data validation and contract compliance screening of gas chromatography-mass spectrometry analyses as well as gas chromatography analyses. She has a thorough knowledge and understanding of gas chromatography and gas chromatography-mass spectrometry (GCMS) and high resolution GCMS methods referenced in EPA CLP, SW-846, EPA 500, 600 and 1600 series documents. She has performed large data validation under Boeing, Navy Southwest and Pacific Divisions and EPA Region IX ESAT, USACE and AFCEE/AFCEC projects.



## **LABORATORY DATA CONSULTANTS, INC.**

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Ms. Geng has over 7 years of experience in an environmental laboratory performing the analysis of organic parameters.

- As both a GC and GC/MS chemist at Ceimic Corporation, a full service environmental analytical chemistry facility, Ms. Geng performed GC and GC/MS volatile and semivolatile analyses.
- As both a GC and GC/MS chemist at PACE Analytical Service Inc., a full service environmental analytical chemistry facility, Ms. Geng performed GC and GC/MS volatile and semivolatile analyses as well as overseeing the final reporting of analytical data, and compliance with method requirements.



## LABORATORY DATA CONSULTANTS, INC.

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### RESUME RICHARD M. AMANO

#### EDUCATION

B.S. Biochemistry  
University of California, Los Angeles, 1979

A.A. Chemistry  
El Camino College, 1977

#### PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.  
Program Manager/Principal Scientist  
2011-present  
President/Principal Chemist,  
1991 to 2011

Analytical Technologies, Inc  
Laboratory Director  
1986 to 1991

Brown & Caldwell  
Laboratory Supervisor  
1983 to 1986

West Coast Technical Service  
Senior Chemist  
1980 to 1983

University of California, Los Angeles  
Laboratory Technician  
1979 to 1980

#### REPRESENTATIVE EXPERIENCE

Mr. Amano has over 38 years of combined environmental laboratory, QA/QC, laboratory auditing, data management, environmental software development, and data validation experience. Prior to founding LDC in 1991, he directed two major laboratories, Analytical Technologies, Inc. (San Diego) and Brown and Caldwell. His experience includes oversight and direction of major QA/QC and data validation efforts for confidential petroleum spill projects, Boeing sites, Superfund sites, DoE sites, Navy RI/FS projects, Army Corps of Engineers investigations, and AFCEE/AFCEC projects. He has also overseen several laboratory audits for major analytical testing programs and large scale environmental software development for the US Army Corps of Engineers (USACE).

Specifically, Mr. Amano has over 26 years of experience with validation of organic, inorganic, and radiochemical analyses using USEPA, Navy, USACE, DoD, AFCEE/AFCEC, and other applicable guidance documents.



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- As program manager/principal scientist with LDC, Mr. Amano provides management and technical support to the data validation, data quality, and software group. He oversees and directs all environmental software projects developed for the USACE. Additionally, he acts as the primary LDC/USACE contract manager for software development projects. He is the primary author of the nationally distributed Automated Data Review (ADR) software used by the USACE, Navy, DTSC, and commercial clients.
- As President/principal chemist with LDC, Mr. Amano provided management and technical support to the data validation, data quality, and software group. He provided technical support in the organic, inorganic, and radiochemical areas. Under several major QA/QC and data validation programs, he provided, as needed, a final review of data validation and assessment reports. Mr. Amano specializes in the evaluation, validation, and interpretation of environmental testing data. Additional responsibilities include laboratory QA/QC and NELAC audits, implementation and support of QA/QC programs and data management support for engineering firms, environmental lab training, consultation on LIMS data base designs for environmental laboratories, and expert witness litigation support. Mr. Amano has managed and directed several major data validation and QA/QC projects for Army Corps, Navy, Air Force, and commercial contracts. Industrial projects include major petroleum oil spill related data validation and assessment of hydrocarbon analyses. The DoD projects include Southwest Division CLEAN 1 (Jacobs Engineering/IT Corporation/CH2M Hill), Southwest Division CLEAN 2 (Bechtel National), Pacific Northwest Division CLEAN (URS Greiner), Southern Division CLEAN (ABB Environmental), Atlantic Division CLEAN (EA Engineering), Southwest Division RAC (OHM Remediation), Pacific Division CLEAN (Earth Tech), AFCEE/AFCEC Mather AFB (Montgomery Watson), AFCEE/AFCEC Pease AFB (Bechtel Environmental), AFCEE/AFCEC England AFB (Law Environmental), Army Corps Travis AFB (CH2M Hill), Army Corps Hawthorne Army Depot (Tetra Tech), Nevada Test Site (IT Corp), and Army Corps Fort Ord (Harding Lawson). He provided oversight and direction for major USACE environmental software development including Automated Data Review (ADR), FUDSFORUM, MRSP, and FUDSCHEM. He has a thorough knowledge and understanding of EPA CLP, SW-846, EPA 500, EPA 900, and EPA 600 series methods. He additionally has supported attorneys as an expert witness and has taught data integrity and lab ethics courses for several organizations.

Mr. Amano has over 12 years environmental laboratory experience in commercial laboratories supervising or performing the analyses of organic, inorganic, and radiochemical parameters.

- As laboratory director and technical director of Analytical Technologies, Inc, a full service environmental analytical chemistry facility, Mr. Amano was responsible for all facets of operations. These responsibilities include direct technical input for GC, GC/MS, and inorganic operations, personnel selection, assisting in method development, and selection of non-routine analysis. In addition, Mr. Amano was responsible for supervision of the 80 scientists employed at ATI's San Diego laboratory with all group supervisors, quality assurance and safety coordinators reporting directly to him. Mr. Amano has managed numerous analytical testing programs including the North Island Navy Confirmation Study, Miramar Air Force Base Confirmation Study, and investigations at several of the EPA Superfund sites. His environmental expertise focuses on the chemical testing related to hazardous waste investigations, site remediation, and groundwater monitoring programs.



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- While at Brown & Caldwell, Mr. Amano's responsibilities encompassed supervision of daily operations of the laboratory, personnel staffing, technical advisor for operation of the gas chromatograph/mass spectrometer (GC/MS) section, maintenance of QA/QC programs, and coordination between engineers, clients, and laboratory analysts. Additionally, he supervised the daily operation of all radiochemistry activities which included alpha, beta, and radium analyses.
- At West Coast Technical Service, Mr. Amano was responsible for daily operation and quality control of the GC/MS group. Mr. Amano was highly involved with the USEPA hazardous waste contracts. Some special projects included dioxin selected ion monitoring analysis, EPA method 624 and 625 validation studies, and low level drinking water evaluations.

### TECHNICAL PRESENTATIONS

#### "Understanding the Workings of an Environmental Laboratory"

Southern California Department of Health Services, 1984  
Hargis & Associates, Inc, La Jolla, CA, 1987  
Hargis & Associates, Inc, Tucson, AZ, 1987  
Westec Services, San Diego, CA, 1987  
Applied Hydrogeologic, Inc, San Diego, CA 1989

#### "Data Validation, QA/QC, and Environmental Analysis"

Van, Waters, and Rogers, Seattle, WA, 1990  
ERC Environmental, Honolulu, HI, 1991  
Harding Lawson Associates, Honolulu, HI, 1991  
Pacific Division Naval Engineering Group, Honolulu, HI, 1991  
OHM, Irvine, CA, 1996  
Southwest Division Naval Engineering Group, San Diego, CA, 1996  
Navy Public Works Center, San Diego, CA 1996

#### "GC versus GC/MS"

J.H. Kleinfelder & Associates, Artesia, CA 1986  
Hargis & Associates, Inc, La Jolla, CA 1987

#### "Analytical Methods and QA/QC Procedures for Environmental Analysis"

County of San Diego Department of Health Services, San Diego, CA 1989  
Regional Water Quality Control Board, San Diego, CA 1990  
ERC Environmental, San Diego, CA 1990  
Mittlehauser Corporation, Laguna Hills, CA 1991

#### "Hydrocarbon Testing Related to Underground Storage Tanks (UST)"

San Diego County DOHS, San Diego, CA, 1986  
J.H. Kleinfelder & Associates, Artesia, CA 1986  
Woodward Clyde Consultants, San Diego, CA 1987

Engineering Enterprises, Long Beach, CA 1987

#### "Quality Control/Quality Assurance in Laboratories"

Assoc of Hazardous Materials Professionals, Anaheim, CA 1986  
R.L. Stollar & Associates, Santa Ana, CA 1989



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- "The Influence of Sample Matrix on Environmental Analysis"  
Assoc of Hazardous Materials Professionals, San Diego, CA 1990
- "Comparison of Air Sampling Media"  
Assoc of Hazardous Materials Professionals, Anaheim, CA 1991
- "Building a Second Generation LIMS for Commercial Laboratory Operations"  
Pittsburgh Conference, New York, NY, 1990 (Invited Speaker)
- "Employment Outlook in Environmental Laboratories"  
Southern California American Chemical Society, 1985
- "Opportunities in the Environmental Lab in the 1990's"  
American Chemical Society, 1990
- "Data Validation of Radiochemical Analyses"  
Hargis + Associates, La Jolla, CA 1991
- "Detection Limits - MDL, PQL, RDL, LOD ?"  
Analytical Technologies, Inc., 1991
- "Poor QA/QC or Laboratory Fraud: Have labs crossed the fine line?"  
Environmental Professionals Organization, Newport Beach, CA 1996
- "Electronic Data Deliverables and Automated Data Review/Validation"  
Army Corps of Engineers, Sacramento District, Sacramento, CA 1996
- "Navy Environmental Data Transfer Standards"  
Kleinfelder, San Diego, CA 1997
- "Laboratory QA/QC Update for DoD Programs"  
ACTLabs, Long Beach, CA 1997

### LECTURING AND TEACHING

- "Instrumental Analysis of Hazardous Materials"  
University of California, San Diego 1988 - 1995
- "Field Monitoring & Laboratory Analysis of Hazardous Materials"  
University of California, San Diego 1995 - 1998
- California State Fullerton, Guest Lecturer, 1985 & 1990
- San Diego State University, Hydrology Department, Guest Lecturer, 1988
- "EPA Level 4 Data Validation" Workshop  
Applied Geotechnology, Inc., Bellevue, WA, 1993
- "Environmental Analyses in the 90's"





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National University, Guest Lecturer, 1993

"Data Quality Objectives for Federal Environmental Programs"  
University of California, San Diego 1993

"Data Integrity and Data Management for Federal Environmental Programs"  
University of California, San Diego 1994

"Laboratory QA/QC and Electronic Data Requirements for DoD Programs"  
University of California, San Diego 1995

"Application and Utilization of Department of Defense (DoD) Guidance Documents"  
University of California, San Diego 1996

"Laboratory Quality Assurance for Department of Defense Programs"  
University of California, San Diego 1997

### PUBLICATIONS

"Managing an Environmental Chemistry Laboratory for Profit",  
John H. Taylor, Jr and Richard M. Amano,  
Journal of Chromatographic Science, 1987

### MEMBERSHIPS AND AFFILIATIONS

American Chemical Society  
Association of Hazardous Materials Professionals, (Steering Committee 1988-1994)  
Association of California Testing Laboratories, (Board Member 1989-1991)  
County of San Diego, Site Assessment and Mitigation Technical Forum (Steering Committee  
1990-2000)  
American Society Quality Control (1992-2005)

### FOUNDATIONS

Golf for Autistic Children in America (GACA), Founder/President (2011)



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### RESUME ERLINDA T. RAUTO

#### EDUCATION

B.S. Chemical Engineering 1967  
Feati University - Manila, Philippines

#### PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.  
Senior Chemist/Validation Group Manager  
1993 to present

Appropriate Technologies, Inc.  
Chemist II  
1992 to 1993

AECOS Inc.  
Laboratory Supervisor  
1989 to 1992

PWCSA #4 County Complex  
Laboratory Analyst  
1986 to 1989

Kalama Specialty Chemical  
Chemist  
1980 to 1982

#### REPRESENTATIVE EXPERIENCE

Ms. Rauto has over 38 years combined environmental laboratory, QA/QC, and data validation experience. Her experience includes performance of data validation in the GC, trace metals, and wet chemistry areas for major Federal projects. Her laboratory experience includes hands-on CLP and EPA ICP/GFAA analysis, pesticide/PCBs and wet chemistry analysis.

Specifically, Ms. Rauto has over 25 years of experience with organic data validation and assessment using USEPA (including Region III) functional guidelines and other applicable documents.

- As a Principal chemist with LDC, Ms. Rauto provides management and technical support to the data validation group. She specializes in the data validation and compliance screening of gas chromatography organic analyses. This validation includes EPA CLP, SW-846, and EPA Water and Wastewater methods. Over the past 16 years, Ms. Rauto has performed USEPA Level 3 and Level 4 (including NFESC Level C and D) validation for projects including Boeing SSFL, Southwest Division CLEAN 1 (Jacobs Engineering/IT Corporation/CH2M Hill), Southwest Division CLEAN 2 (Bechtel National), Pacific Northwest Division CLEAN (URS Greiner), Southern Division CLEAN (ABB Environmental), Atlantic Division CLEAN (EA Engineering), Southwest Division RAC (OHM Remediation), Pacific Division CLEAN (Earth Tech), DoE Atomic City (Jacobs



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Engineering Group), Army Corps of Engineers, Travis AFB (CH2M Hill), Army Corps of Engineers, Camp Navajo (Tetra Tech), AFCEE/AFCEC Mather AFB (Montgomery Watson), AFCEE/AFCEC Pease AFB (Bechtel Environmental), AFCEE/AFCEC England AFB (Law Environmental), Army Corps of Engineers, Hawthorne Army Depot (Tetra Tech), Army Corps of Engineers, Fort Ord (Harding Lawson), Nevada Test Site (IT Corp), and AFCEE/AFCEC Beale AFB (Law/Crandall, Inc.).

Ms. Rauto has organic laboratory experience with over 13 years of experience in an environmental laboratory supervising or performing the analyses of organic parameters.

- As a chemist II at Appropriate Technologies, Inc., a hazardous waste disposal facility, Ms. Rauto was responsible for the operation of the gas chromatographs. Organochlorine pesticides and PCBs analysis was the primary method performed. In addition, Ms. Rauto performed ICP analyses for trace metals, as well as, supported engineers in developing waste treatment processes.
- As the laboratory supervisor at AECOS Inc., Ms. Rauto supervised and directed operation of gas chromatography, atomic absorption, and wet chemistry instrumentation. She interfaced with state and federal agencies to maintain certification and developed a written QA/QC plan for the laboratory.
- As chemist at Kalama Specialty Chemical, Ms. Rauto performed gas chromatography analysis on raw materials and finished products. She worked on the research and development of new chemicals.

Additionally, Ms. Rauto has 2 years inorganic/conventional analytical experience.

- While employed at the Prince William County laboratory, Ms. Rauto was involved in the analysis of water and wastewater for metals and wet chemistry parameters. This included BOD, COD, nitrate, nitrite, sulfate, chloride, fluoride, TDS, conductivity, pH, cyanide, and phenols analyses. She maintained the QA/QC program to assure compliance with EPA guidelines.

### AFFILIATIONS

American Society for Quality Control



RESUME  
CHRISTINA RINK-ASHDOWN

EDUCATION

BS Biology, 2006  
University of California, San Diego

PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.  
Inorganic Chemist  
2009 to present

Enviromatrix Analytical, Inc.  
Metals Chemist  
2007 to 2009

REPRESENTATIVE EXPERIENCE

Ms. Rink-Ashdown has over 11 years combined environmental laboratory and data validation experience. Her experience includes performance of data validation in the trace metals, radiochemistry, and wet chemistry areas for major Federal and commercial projects. Her laboratory experience includes hands-on CLP and SW-846 ICP/CVAA analysis and overall technical review of data deliverables. Specifically, Ms. Rink-Ashdown has over 6 years inorganic and radiochemistry data validation experience using USEPA (including Region III) functional guidelines and other applicable documents.

As chemist with LDC, Ms. Rink-Ashdown specializes in the data validation of trace metals, wet chemistry, methyl mercury and radiochemistry analyses using USEPA functional guidelines or equivalent protocol. She has worked under various CERCLA and EPA data validation guidelines for the various CERCLA, Navy, Army Corps, AFCEE/AFCEC and commercial projects. She is certified as a "Radiometric Data Validation Specialist" through course work and testing by the Radiochemistry Society. **Ms. Rink-Ashdown has validated over 2,000 samples for various isotopes in the last two years.**

Ms. Rink-Ashdown has over 2 years of environmental laboratory experience in a laboratory performing the analyses of inorganic parameters.

As lead inorganic chemist at Enviromatrix Analytical, Inc., Ms. Rink-Ashdown managed the inorganic chemistry section which performed techniques such as atomic absorption and inductively coupled argon plasma spectrometry. These analyses were performed from methods referenced in EPA CLP, SW-846, and Standard Methods documents.



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## RESUME SHAUNA McKELLAR

### EDUCATION

B.S. Environmental Toxicology, 2006  
University of California at Davis

### PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.  
Project Manager / Chemist  
May 2010 to present

D-Max Engineering, Inc.  
Assistant Project Scientist  
January 2007 to May 2010

University of California at Davis  
Undergraduate Researcher  
March 2005 to June 2006

### REPRESENTATIVE EXPERIENCE

Ms. McKellar has over 14 years combined consulting, field sampling, database management, data validation, and automated data review experience. Her experience includes performance of automated data validation for major Navy Southwest Division, US Army Corps of Engineers, and Alaska DEC projects as well as data management for commercial and litigation projects. Her field sampling experience includes surface water sampling in both wet and dry weather conditions, and her laboratory experience includes preparation and analysis of samples utilizing HPLC and UV-vis spectrometry, instrument maintenance, and data evaluation.

Specifically, Ms. McKellar has over 6 years of inorganic and organic data validation experience using USEPA functional guidelines, Navy procedures, QAPP, ADEC checklists, and other applicable documents, in addition to more than 3 years of experience working in the environmental compliance field, and over one year working in a research laboratory.

- As chemist with LDC, Ms. McKellar specializes in the data validation and contract compliance screening using LDC's Automated Data Review (ADR) software, and is familiar with a variety of different Electronic Data Deliverable formats, including SEDD and NEDD. She has supervised large data validation projects under the USACE and Navy Southwest Division RAC contracts.
- As an assistant project scientist with D-Max Engineering, Ms. McKellar performed wet and dry weather surface water sampling related to compliance with Regional Water Quality Control Board NPDES Permits. She also maintained large project databases related to stormwater inspection and monitoring programs for various municipalities.



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- As an undergraduate researcher at the University of California at Davis, Ms. McKellar conducted an independent atmospheric chemistry research project utilizing HPLC and UV-Vis spectroscopy. She was responsible for the instrument calibration, verifying sample analyses, and routine instrument maintenance.



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## RESUME LINDA TA

### EDUCATION

B.S. Geology, 2012  
California State University Long Beach

### PROFESSIONAL HISTORY

Laboratory Data Consultants, Inc.  
Chemist and Project Manager  
July 2018 to present

Eurofins Calscience  
Project Manager Assistant  
02/2014-07/2018

Eurofins Calscience  
Chemist  
10/2013-02/2014

### REPRESENTATIVE EXPERIENCE

Although Ms. Ta has less than one year of experience at LDC, she is proficient in data validation for GC and GCMS methods for Level II and III.

- As a project manager with LDC, Ms. Ta assists the other project managers through project set-up, validation, report review, and writing project data quality assessment reports. Ms. Ta is also in training to perform ADR validation and ERPIMS database tasks. She is also the administrative support specialist for LDC Advantage secure data sharing portal where she assists with project and client set-up.

Ms. Ta has 5 years of experience in an environmental laboratory performing the analysis of organic parameters.

- As a GC/MS chemist at Eurofins Calscience, a full service environmental analytical chemistry facility, Ms. Ta performed GC/MS volatile analyses using various EPA Methods in accordance with standard operating procedures. Ms. Ta utilized Agilent Chemstation and Laboratory Information Management Systems (LIMS) to analyze and report data.
- As a Project Manager Assistant at Eurofins Calscience, Ms. Ta assisted multiple Project Managers to oversee all laboratory functions for various projects. In addition, she managed several minor projects for various Environmental consultants. She served as the secondary point of contact for clients, ensured that Chain of Custodies are accurate and analyses are logged in correctly, directed preparation of bottle orders, scheduled pickups and deliveries, coordinated subcontracted analyses, provided quality control review of project-related documents and compliance to project criteria, worked closely with lab group supervisors and executive managers in planning new projects and managed ongoing analytical work. Ms. Ta evaluated analytical data, prepared project



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case narratives and summaries, compiled laboratory reports for external validation, and worked closely with chemists and lab group supervisors in resolving quality assurance and quality control issues. She prepared detailed project billing and generated multiple Electronic Data Deliverables. She was also responsible for training new Project Manager Assistants on various PM tasks, data review and compilation of laboratory Level III/IV QC Data Deliverables.

Below is a partial listing of clients and projects which Ms. Ta has assisted:

-Department of Defense Sites

- Edwards AFB
- George AFB
- Vandenberg AFB

-SSFL NASA

-BP/ARCO

-Aerospace Company

Below is a listing of various database management software which Ms. Ta has extensive training on:

-ERPIMS

-EQUIS

-Envirodata

-NEDD

-ADR

-Geotracker





### **Relevant Project Experience**

LDC has performed data validation and Quality Assurance services for contaminated sites overseen by AFCEE/AFCEC, Navy Southwest Division, DoE, DoD, EPA Superfund projects overseen by EPA Regions II, III, IV, IX, X, USACE projects reviewed by the Alaska, Baltimore, Louisville, Albuquerque, Seattle, Philadelphia, and Sacramento Districts, and Navy projects reviewed by NFESC.

LDC is the software developer and expert in the use of the Automated Data Review (ADR) software. LDC has been using the ADR.NET version for over 2 years and has the current Version in full implementation. LDC has performed over 1000 ADR projects in the past 10 years' worth over \$2,000,000 in revenue. ADR clients include, but are not limited to: Tetra Tech EC, Sealaska, AMEC, EPA, California DTSC, MWH, Trevet, Brown & Caldwell, AECOM, Shaw, ITSI, CDM, Weston Solutions and the San Gabriel Watermaster.

LDC has validated over 1,000,000 samples for analyses such as volatile organics (CLP, EPA Method 8240/8260), semivolatile organics (CLP, EPA Method 8270), organochlorine pesticides/PCBs (CLP, EPA Method 8081/8082), chlorinated herbicides (EPA Method 8151), purgeable halocarbons and aromatics (EPA Method 8021), trace metals (CLP, EPA Method 6010/6020/7000), PAHs by EPA 8310 and 8270, TOC analyses, hexavalent chromium, total petroleum hydrocarbons (EPA Method 8015/CDOHS LUFT), radiochemical constituents including gross alpha/beta, alpha spec, gamma spec, tritium, and uranium, and general minerals.

LDC has met their contractual turnaround time and quality requirements on over 99% of the projects completed.



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## Project References/Experience

Name and Address, Contact Person, Telephone	Work Description and Location	Requested Deliverables	Number of samples/ Matrix	Value (\$)	Start/Stop
Washington State Department of Transportation Environmental Services Office P. O. Box 47332 Olympia, WA 98504 ATTN: Mr. Brad Archbold Archbob@wsdot.wa.gov 360-570-6636	WSDOT NPDES Stormwater Monitoring LDC performed Stage2A, 2B and 4 data validation for a full suite of analyses including GCMS, GC, Metals, and Wet Chemistry analyses.	Stage 2A, 2B, and 4 data validation reports. Work conducted under Washington State Department of Transportation Stormwater Monitoring	>3,800 Soil and Water	\$48,332	04/2013-07/2016
Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614 ATTN: Mr. Mark Withrow mwithrow@leightongroup.com cell: 949-394-2194 office: 949-681-4211	San Onofre Nuclear Generating Station (SONGS) Mesa Facility LDC performed EPA Level III and IV equivalent data validation for a full suite of analyses. Analyses included GCMS, GC, Metals, and Wet Chemistry analyses.	EPA Level III and IV data validation reports. Work conducted under USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG).	>3,600 Soil, Water, and Air	\$66,225	09/2015-present
Leighton Consulting, Inc. 17781 Cowan Irvine, CA 92614 ATTN: Ms. Julie Harriman jharriman@leightongroup.com Direct : (949) 681-4264 Cell: (949) 572-8129	Aliso Canyon LDC performed EPA Level II equivalent data validation. Analyses included VOA, SVOA, Total Hydrocarbons, Isopropyl Alcohol, Total Dust, and Sulfur Compounds.	EPA Level II data validation reports and PARCC summary report. Work conducted under USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG).	>1,200 Air, Wipe, and Disk	\$15,749	07/2016-08/2016
Tetra Tech, EM Inc. 1999 Harrison Street, Suite 500 Oakland, CA 94612 ATTN: Ms. Sara Woolley Sara.Woolley@tetratech.com Direct: 510.302.6311 Main: 510.302.6300	Subcontract 161408 For Various project sites including: EAGLE NEST INVESTIGATION FORT IRWIN GOLD BEACH MILL HPNS MARE ISLAND MOTCO LITIGATION NAF EL CENTRO NWS CONCORD LDC performed Cursory and Full data validation for a full suite of analyses using specified EPA Guidelines, Dod QSM Version 4.2, and Tetra Tech EMI, Inc. validation documents.	TTEM1 Format data validation reports and EDD using Tetra Tech's validate program.	>3000 Soil and Water	\$39,785	10/2011 – 10/2013



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Name and Address, Contact Person, Telephone	Work Description and Location	Requested Deliverables	Number of samples/ Matrix	Value (\$)	Start/Stop
GEI Consultants, Inc. 455 Winding Brook Drive Glastonbury, CT 06033 (860) 368-5342 direct (860) 368-5300 main Jaime Wargo JWargo@geiconsultants.com	Various NYSDEC sites LDC performed Category B equivalent data validation Analyses included: VOC, SVOC, Pesticide, PCB, Herbicide, Steroids, Metals, Wet Chemistry	Category B data validation and NYSDEC DUSR reports	>1,700 Soil and Water	\$72,000	2010-present
TetraTech EC 17885 Von Kamman Ave, Suite 500 Irvine, CA 92614 Attn: Lisa Bienkowski (949) 809-5028 Lisa.Bienkowski@tetratech.com	Tetra Tech Hunter's Point CA LDC performed EPA Level III and IV equivalent data validation for a full suite of analyses on more than 50,000 soil and water samples. Analyses included tritium, isotopic thorium, uranium and plutonium, and gross alpha/beta. Expedited turnaround times were included (5 day TAT)	EPA Level III and IV data validation reports. Work conducted under US Navy RAC program, Southwest Div.	>50,000 Soil and Water	\$645,733	02/2001-present
AECCOM (Earth Tech) 700 Bishop Street Honolulu, HI 96813 Contact: Scott Lewis (808) 523-8874 Scott.Lewis@aeecom.com	Data validation per EPA level "3/C" and "4/D" guidelines for volatile organic, semivolatile organic, pesticides/PCBs, herbicides, phenols, phosphorus pesticides, dioxin, radiochemical, and trace metal analyses in soil, water, and tissue matrices. (Navy PACDIV CLEAN, Honolulu, HI)	LDC worksheets and validation reports	>10,000 samples Water/Soil/Air	\$750,000	4/98-present
CBI (formerly Shaw E&I) 3347 Michelson Drive, Ste 200 Irvine, CA 92612 Contact: Mr. Dwayne Ishida Phone: (949) 660-7561 <a href="mailto:Dwayne.Ishida@CBIFederalService.com">Dwayne.Ishida@CBIFederalService.com</a> <a href="http://www.cbi.com">www.cbi.com</a>	Data validation per EPA level "3" and "4" and AFCEE/AFCEC guidelines for volatile organic, semivolatile organic, pesticides/PCBs, herbicides, phenols, phosphorus pesticides, dioxin, radiochemical, and trace metal analyses in soil, water, and tissue matrices. (Navy Southwest Division RAC, San Diego, CA and various AFCEE/AFCEC projects)	LDC worksheets and validation reports	>5000 samples Water/Soil/Air	\$350,000	6/06-present



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Name and Address, Contact Person, Telephone	Work Description and Location	Requested Deliverables	Number of samples/ Matrix	Value (\$)	Start/Stop
Santa Clara Pueblo Office of Environmental Affairs 578 Kee Street Espanola, New Mexico, 87532 Ms. Ernestine Naranjo 505-692-6270 phone 505-747-2728 fax enaranjo@santacларapueblo.org	Data validation per EPA level "III" SCP-OEA-DEPO, Data Validation using ADR For full suite of Organic, Inorganic, and Radiochemical analyses. Radiochemical analyses including Gross alpha & beta, Gamma Spectroscopy, Iodine, Radium-226/228, Strontium-90, Isotopic Pu, Th, and U, Tritium, and Americium by various EPA and GA methods.	Level III Validation using ADR	>750 Soil, Water, and Air	\$11,987.05	12/2015 - present
Anchor Environmental, LLC 720 Olive Way, Suite 1900 Seattle, WA 98101 Ms. Joy Dunay 206.287.9130, jdunay@anchorage.com	Data validation per Level "C" Newtown Creek Phase 2: Third Party Data Validation of laboratory results, EDD population, and Data Quality Assessment Reports (DQAR) for various methods Subcontractor	LDC worksheets and validation reports	>63,000 Soil and Water	\$743,793.88	6/14-1/16
Tradebe Environmental Services, LLC. 628 South Saratoga Street Cohoes, NY 12047 Attn: Accounts Payable Mr. Tom VanVranken (518) 235-0401 tom.vanvranken@tradebe.com	Norlite MACT Project LDC performed Category B equivalent data validation Analyses included: Metals, Mercury, Heat Content, Ash Content, Chlorine, Density, and Dioxins	Category B data validation and NYSDEC DUSR reports	11 Soil, Air and Water	\$2,000.00	9/2013
P.W. Grosser Consulting2015 630 Johnson Ave, Suite 7 Bohemia, NY 11716 Attn: Mr. Derek Ersbak W: 631.589.6353 F: 631.589.8705 dereke@pwgrosser.com	Former Arkansas Chemical Co. Site and Former Ronkonkoma Wallpaper Site 203 Jay St. LDC performed Category B equivalent data validation Analyses included: VOC, SVOC, Pesticide, PCB, Metals, Wet Chemistry	Category B data validation and NYSDEC DUSR reports	>200 Soil and Water	\$3,024.00	11/2014-present



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Name and Address, Contact Person, Telephone	Work Description and Location	Requested Deliverables	Number of samples/ Matrix	Value (\$)	Start/Stop
Amec Foster Wheeler Environment and Infrastructure, Inc. 9210 Sky Park Court, Suite 200 San Diego, CA 92123 Attn: Mr. Rolf Schottle rolf.schottle@amecfw.com Tel +1 (858) 300 4300, Fax +1 (858) 300 4301, Direct +1 (858) 300 4323	Regional Harbor Monitoring Program (RHMP), San Diego, California Third party validation of LDC performed EPA Level III and IV equivalent data validation for a full suite of analyses.	LDC worksheets and validation reports	>200 Water	\$9,011,40	3/15-6/16

Note: All above projects were 100% self-performed by LDC

## **Appendix E**

### **Adjacent Property Owners**

Owner	Tenant
Joseph & Berta Weinstein  1807 Alice Street Merrick, NY 11566	Owner (Residence)
Vanessa Gaslkin  26 Alice Street Merrick, NY 11566	Owner (Residence)
Carl DiGangi, Gladiz DiGangi, & Victoria DiGangi  22 Alice Street Merrick, NY 11566	Owner (Residence)
Joseph Bertagni Living Trust & Joseph Bertagni Trust  1825 Alice Street Merrick, NY 11566	Owner (Residence)