

**American Cleaners Middletown  
Orange County, New York**

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**Remedial Investigation/  
Alternative Analysis Report:**

**Operable Unit #2 Groundwater  
NYSDEC Site Number: V-00461-3**

**Prepared for:**

AMERICAN CLEANERS, Inc.

360 Route 211 East

Middletown, NY 10940

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**JANUARY 2018**

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## CERTIFICATIONS

I, Jolanda G. Jansen, certify that I am currently a NYS registered professional and that this Remedial Investigation/ Alternative Analysis Report 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) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

068972-1

NYS Professional Engineer #

1/10/2018

Date

J. G. Jansen

Signature

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## LIST OF ACRONYMS

AS	Air Sparging
ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAMP	Community Air Monitoring Plan
C/D	Construction and Demolition
CFR	Code of Federal Regulation
CLP	Contract Laboratory Program
COC	Certificate of Completion
CO2	Carbon Dioxide
CP	Commissioner Policy
DER	Division of Environmental Remediation
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Approval Program
ERP	Environmental Restoration Program
EWP	Excavation Work Plan
GHG	Green House Gas
GWE&T	Groundwater Extraction and Treatment
HASP	Health and Safety Plan
IC	Institutional Control
IRM	Interim Remedial Measure(s)
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
OM&M	Operation, Maintenance and Monitoring
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PID	Photoionization Detector
PRP	Potentially Responsible Party
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RP	Remedial Party
RSO	Remedial System Optimization
SAC	State Assistance Contract

SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SOP	Standard Operating Procedures
SOW	Statement of Work
SPDES	State Pollutant Discharge Elimination System
SSD	Sub-slab Depressurization
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leachate Procedure
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program

# RI/AAR: OPERABLE UNIT #2 GROUNDWATER

## 1.0 INTRODUCTION

This Remedial Investigation / Alternatives Analysis Report is prepared on behalf of American Cleaners of Middletown, NY for remedial investigation activities performed at 360 Route 211 East, with a Middletown, NY 10940 address (Figure 1-1). American Cleaners has a lease for a parcel of 0.968 acres identified as Lot 2 on the survey map prepared by Lanc & Tully last revision June 12, 2009 (Figure 2). The American Cleaners building is located within the former Caldor Plaza, located in the Town of Wallkill adjacent to the City of Middletown (Figure 1-3). The 19.26 acre Caldor Plaza site is owned by Wallkill Acquisitions, LLC.

In December 2001, a Voluntary Cleanup Agreement was executed between New York State Department of Environmental Conservation (NYS DEC), Division of Environmental Remediation (DER) and American Cleaners, Inc. (Middletown), the Volunteer. As a participant in the Voluntary Cleanup Program, American Cleaners of Middletown is identified as Site Number V-00461-3, Index Number W3-0997-01-06. The Remedial Investigation work has been carried out in compliance with the Draft DER-10 Technical Guidance for Site Investigation and Remediation (December 25, 2002 and May 3, 2010 revision).

In March of 2009, Mid-Hudson Geosciences took over the consulting work for American Cleaners and prepared a Remedial Investigation Report (RIR) dated April 10, 2010 and Remedial Action Selection Report (RASR) dated June 19, 2010 from documents and information provided by Walter Berninger and his staff at Berninger Environmental, Inc. of 90-B Knickerbocker Avenue, Bohemia, NY 11716 (Telephone 613-589-6521). Section 1.4 describes circumstances and work requiring preparation and submittal of this Supplemental RIR.

To satisfy NYS DEC requirements, Jolanda G. Jansen, P.E. of Jansen Engineering, PLLC came to the project as supervising engineer in 2012.

### 1.1 Purpose and Scope

This RI/AAR has been prepared on behalf of American Cleaners Middletown to describe and present the findings of:

- Investigation activities completed prior to identification of Operable Units 1 and 2,
- On-site remedial investigation activities for Operable Unit 2 Groundwater,
- Evaluation of remedial alternatives, and
- Recommendation of a remedial strategy selected to address the groundwater contamination remaining at the Site.

The physical setting of the American Cleaners building within the Caldor Plaza parking lot area is characterized with respect to underground and overhead utilities. The hydrogeologic setting of unconsolidated overburden sediments and water-bearing zones of northward groundwater flow is defined from study and sampling of soil borings and monitoring wells. Tetrachloroethylene (also known as PCE or perc) contamination of the environment is defined with soil, soil vapor, and groundwater sampling under the building and under adjacent parking lots. Sub-slab soil vapor VOCs are currently treated with an operating vapor extraction system and PCE contaminants in soil were removed with excavation and disposal of soils from a spill site by the back door. Groundwater contaminant locations and exposure pathways are evaluated with respect to human health.

Groundwater sampling has shown the presence of dissolved Tetrachloroethylene with associated breakdown products (TCE, 1,2cisDCE) indicating possible digestion of the PCE by natural bacteria. However, a review of the spatial distribution of PCE over the years of sampling (2003, 2005, 2010, 2012 and 2017) indicates that the central part of the plume has only diminished about 25 percent over the past 10 years. A groundwater remediation plan is needed to cleanup the water in a more timely manner. Alternative remedial strategies are evaluated and an effective method of treatment is recommended.

## 1.2 Site Description

Even though the address is Middletown, American Cleaners is actually located in the Town of Wallkill, on the east side of the Middletown City Boundary at 360 Route 211E at the Caldor-Lloyds Mall (Figure 1-3). The Town of Wallkill is the shopping center for central and western Orange County because most of the shopping and commercial development in the 1980s to present has occurred in the Town, which geographically wraps around the northern, northwestern and northeastern area of the City of Middletown.

The Orange County Real Property Tax map location of the American Cleaners site is designated as Section 50, Block 2, Lot 36.2 in the Town of Wallkill, NY (Figure 1-3). The American Cleaners building is located in the Caldor-Lloyds Mall in the northwest corner of the Mall property. The mall area is on the south side of Route 211 East and is accessible via Schleman Road. At Route 211, Schleman Road on the south side becomes Silver Lake-Scotchtown Road on the north side. Upon entering the Mall on Schleman Road, American Cleaners is to the right (west). The Caldor Mall and American Cleaners are also accessible from Carpenter Avenue.

The Caldor-Lloyds Mall lies on land with a downward slope to the north toward Route 211, so that the major buildings for Caldor and Lloyds were overlooking the main road and parking areas were in front of the buildings on land sloping to the north. At the time in 1982 when the American Cleaners building was constructed, Lloyd's Store was located less than 0.02 miles from the northwest corner. Lloyds was an original all-in-one grocery store and department store under one roof with gasoline and an automotive service department built in the early 1960s. Lloyds went out of business and by 1994 is not shown on the air photos for the area. The main Caldor Building is located south and east of American Cleaners facing north toward the mall road, NYS Route 211. The closed Friendly's Ice Cream and Restaurant is located to the east directly in front of the Caldor Building. Caldor went out of business several years ago and the

majority of the building has been vacant for some time. Neighboring properties include MHV Credit Union to the east across the parking lot from the front door of American Cleaners. Previously the MHV Credit Union was located northeast of American Cleaners near the present location of Carl Jr's hamburger establishment. To the northwest, Cheeseburger Paradise, and a former Video Store, (now vacant) were constructed in the 1990s in part of the old Lloyd's parking lot. The location of the original Lloyd's store is now mostly parking lot with another Bank Building on the west end and a Shop Rite grocery store farther to the west.

During construction of Cheeseburger Paradise and the Video Store, additional fill was used to raise the elevation of the land surface where the buildings and parking lots are located. Consequently, the slope between those two buildings and Route 211 is steeper than before and considerable storm drainage infrastructure was installed to collect sheet runoff from the roof drains and parking lots. The storm water flows out of a large opening next to Route 211 and the northeast corner of the Cheeseburger Paradise parking lot and the northwest corner of the MHV Credit Union parking lot. Another drainage pipe conducts subsurface drainage from American Cleaners beneath a gully between the parking lots. When the drainage emerges at the surface, the water flows as a stream a few hundred feet east and then goes under Route 211 and joins a stream flowing northeast toward Silver Lake (Figure 7). The elevation of Silver Lake is shown as 518 feet above mean sea level on the USGS Middletown 7.5 minute quadrangle (Figure 1-1). The ground elevation of the Caldor building is approximately 580 feet and at the American Cleaners building is about 550 feet above msl.

### 1.3 Site Environmental History

In 1982, Mr. Halevah designed and constructed a one-story building, specifically for operation of a dry-cleaning establishment (Figures 1-2 and 1-3). From 1982 to date, the building has been in continuous operation for dry-cleaning, customer drop-off, and customer pick-up. The design for dry-cleaning services was planned with a customer counter across the front of the store and five 4-feet deep by 5-feet wide trenches running from the front of the store to the rear. The trenches are designed to provide maximum hanging capacity on three tiers of clothes rods running from front to back. The clothes-hanger rods can be reached by the employees to store and retrieve customers' garments. Cleaning, washing, drying, steaming and pressing equipment is placed around the perimeter of the store.

The chemical of concern, Tetrachloroethylene (or tetrachloroethene or perchlorethylene and known in the vernacular as "perc" or "PCE"), has been used at the Site since 1982. Unintentional and unregulated releases of PCE began in 1982 when PCE-saturated filters were placed in the dumpster outside the back of the building for disposal with trash and garbage. The dry-cleaning processing equipment was updated periodically on the following schedule:

1982-1992 First Generation Equipment

1992-1997 Third Generation Equipment

1997-Present Fourth Generation Equipment

Starting in 1982, the PCE used in dry-cleaning operations was delivered in 55-gallon drums. The PCE was pumped from the drums into the "washers." At some time in the 1980s, delivery of PCE changed to delivery by truck with a hose transferring PCE from the truck to the dry-cleaning machines. Truck delivery of PCE is similar to that of fuel oil and the driver sets up the

hose and monitors the operation from the truck. On one delivery occasion, the hose nozzle broke and an unknown quantity of PCE was spilled on the asphalt near the back door of the building. The spilled PCE flowed downslope on the parking lot and pooled at the northern curb of the parking lot about 35 feet away from and parallel to the north wall of the building. The use of PCE was approximately 75 to 100 gallons per week from 1982 until 1997. Since 1997, American Cleaners at Middletown has used less than 200 gallons of PCE per year because “fourth-generation” technology has greatly reduced the use. At some time, the PCE delivery method changed from tank trucks back to 55-gallon drums, probably coincident with the installation of “fourth-generation” equipment.

On-Site Spills are summarized below and reports provided in Appendix E.

**NYSDEC SPILL NUMBER 9910125.** On November 21, 1999, a fire occurred around 5:30 AM in the left rear corner of the building. Cardboard, paper, hangers and fabrics were damaged. Somehow a spill was reported to NYSDEC at 9:17 AM. However, there was no spill of dry cleaning chemicals. The spill report was never closed out.

**UST Fuel Oil Tank Excavation and Environmental Assessment Phase II Report** was documented by HRP Associates, assisted by Anson Environmental (April 2000). On March 14, 2000, the old 3000 gallon tank was excavated and replaced with a 1000 gallon tank.

Confirmatory Soil Samples results are provided in Table 1 in Appendix E, Part 3 and summarized below:

Number of Samples = 4, named UST-east, -west, -south, -bot  
Analyses: STARS Semi-Volatiles by US EPA Method 8270C.  
Compare Lab results with TAGM 4046 and STARS Memo #1  
Table 1 shows no STARS SVOCs detected in sidewall samples.

UST-bot showed Naphthalene 5737 µg/kg and Phenanthrene 9333 µg/kg.  
(heavy aromatic hydrocarbons found in fuel oil)

Other compounds were detected above STARS Cleanup Guidelines

Ethylenebenzene	1275 µg/kg
Xylenes	7500 µg/kg
Isopropylbenzene	6800 µg/kg
1,2,4-Trimethylbenzene	5500 µg/kg
1,3,5-Trimethylbenzene	11,825 µg/kg
P-isopropyltoluene	5925 µg/kg
Napthalene	7500 µg/kg

Tetrachloroethylene, Trichloroethylene, and cis-1,2-Dichloroethylene  
were also found in the confirmatory samples.

**NYSDEC SPILL NUMBER 9914516.** Since the soil sample concentrations in the bottom of the tank grave exceeded NYSDEC STARS Memo #1 Guidance values for petroleum, HRP reported the spill to the NYSDEC Region 3 Spills Unit. The site was then assigned NYSDEC Spill Number 9914516. The spill file was closed 06/15/2011.



HRP also installed three monitoring wells (MW1B, MW2, MW3), which are still used for groundwater monitoring. In soil borings for monitoring well installation and in groundwater from the new monitoring wells, HRP reported concentrations of Tetrachloroethylene and lower concentrations of breakdown products, Trichloroethylene and cis-1,2-Dichloroethylene. Tables 2 and 3 give the laboratory results in the report in Appendix E.

#### 1.4 American Cleaners Construction and Site Plan

The construction of the building (Figure 1-2) and use for the past 28 years has involved the following elements:

- One large open room.
- Underground water supply line installed under the parking lot from the vicinity of the Mall Entrance on Schleman Road.
- Underground sewer line also installed under the parking lot from the vicinity of the Mall Entrance on Schleman Road.
- Underground 3000-gallon double-wall heating oil storage tank to the right as one goes out the back door, in front of the double doors to the boiler room. The tank was removed and replaced with a 1000-gallon double-wall tank on March 14, 2000..
- Removal of contaminated soil from within and around the first tank excavation.
- Peripheral foundation drainage line around the building with discharge to the storm water drainage system flowing to the grate about 30 feet from the northeast corner of the building. Another storm grate is located on the southeast corner of the building connected underground to the downgradient one near the northeast corner of the building.
- Front parking lot provides for cars to park perpendicular to the front of the building.
- Electric wires are overhead from poles at the street entering the building at the northwest corner. In November 2009, the telephone lines were installed underground entering the building at the northwest corner.
- The building was designed and constructed with 5 parallel 4-feet deep and 5-feet wide trenches in the floor running from front to back of the store. The trenches allow for storage of clothing on three tiers of hanger racks, which the employees can reach from the floor without a ladder or step stool.
- Near the back of the trenches, pipes lead from the bottom of the trenches laterally to the peripheral foundation (orangeburg) drain-pipe. The pipes are sealed closed in the bottom of the trenches. The design was planned to allow for the potential need to drain floodwaters, if necessary.
- A similar arrangement of lateral pipes connecting the bottoms of the front of the trenches to the peripheral foundation drain in the center front of the building. These pipes are also sealed in the bottom of the trenches.
- The boiler room is located inside the center of the back wall of the building with double doors opening on the back of the building.
- Two bathrooms are located on the west wall near the back of the building close to the back door.
- The building has another special design of a shallow trench about two feet wide and three feet deep along the south, west and north walls of the building. These trenches house pipes to supply electricity, water, steam, and air to any of the cleaning, washing, drying, steaming, and pressing machines around the inside of the building walls. These tranches are covered with plywood

flush with the floor. The covers protect people from falling into the utility trench. To gain access to the utility distribution system, the plywood covers can be removed.

- In 1997, a shed was constructed on the back west corner of the building for storage.
- A natural gas line was laid underground from Shleman Road to the northside of the American Cleaners building. Based on 8 air photos shot between 1994 and 2016, we are trying to bracket the time and location of the installation of the gas line.

### 1.5 Circumstances Leading to Re-Evaluation of Contaminants at American Cleaners in Soil, Groundwater, and Soil Vapor

A Soil Vapor Extraction Design Plan was submitted to NYSDEC on November 15, 2011. In three documents (December 8, 13, and 28, 2012), NYSDEC suggested revisions and requirements included in a second work plan. The resulting Remedial Action Work Plan (RAWP) was submitted to NYSDEC in February 2012, the RAWP and approval was reflected in the Proposed Decision Document (PDD) on February 29, 2012. The PDD (dated March 2012) was issued for public review with the comment period ending April 5, 2012. No comments were received.

Based on historical sampling, a Vapor Extraction System was proposed under the blacktop of the parking lot west of the building. On May 16, 2012 field work commenced with a pilot test to evaluate the air flow capacity of the subsurface materials in the range of 1 to 5 feet below the blacktop surface. A 2-inch vapor extraction well was installed and set up to measure flow between existing monitoring wells with screens in the same vertical interval. During the pilot test, the subsurface interval of 1.5 to 6.5 feet (in the vadose zone) soils exhibited tightness or very limited porosity and did not transmit measurable air flow when a vacuum was applied.

Photoionization Detector (PID) measurements of fresh Geoprobe™ core samples were all “0.0 ppm.” Over the full length of the cores obtained from the installation of the VES pilot test well. As a result, a decision was made to spend the remainder of the day with the Geoprobe™ taking soil samples, scanning them with the PID and putting them in laboratory glassware and storing them in a cooler with ice packs for sending to York Analytical Laboratories. The objective of the change in plans was to determine if the concentrations of Tetrachloroethylene (PCE) have changed in soil at locations on the map indicating the historical presence of a PCE in soils behind the building.

Eleven soil samples were obtained from borings placed at equally spaced intervals between the corner of the dumpster enclosure and the back door. With respect to the chemical of concern PCE in soil samples collected May 16, 2012, four samples were reported as Not Detected (ND), two samples were J-flagged (considered estimated concentrations, below reporting limit and above method detection limit), and the other five samples had measurable concentrations of 9.7, 22, 23, 62, and 230 µg/kg (ppb). When compared with the Part 375 soil cleanup standard of 1300 ppb PCE for unrestricted use, all of the samples were reported as either not detected or at least one order of magnitude below that standard. Given the new soil data, a vapor extraction system may not be needed in the soils as previously thought based on old soil samples (2001, 2003, 2009 shown in Table 12 and Figure 1-5).

As a consequence of obtaining new data indicating that PCE levels in on-site soils are much lower to non-detect in the proposed area for vapor extraction compared to previous levels, Jansen Engineering and Mid-Hudson Geosciences decided that the on-site contaminant conditions must be re-evaluated. To plan and install appropriate remedial actions based on current subsurface conditions, three work plans evolved for Operable Unit #1, the building and nearby associated sub-pavement and sub-slab soil and soil vapor. That work and remedial activities are reported in a Construction Completion Report dated October 2017. This document, the RI/AAR addresses Operable Unit #2 the groundwater upgradient, under and near the building, and downgradient with groundwater flow to the north toward Route 211 from the American Cleaners Building. One modification of the groundwater sampling program was to sample the five downgradient wells north of the building since they are within the northward migrating groundwater PCE plume (Figure 5-9). A Supplemental RIR presented the laboratory data and associated field procedures required to assess site conditions and remediate the sub-slab vapors beneath the building and soil by the back door.

## 1.6 Summary of Previous Investigations and Reports

Original investigations were conducted at the Site by HRP while replacing an underground storage tank, excavating soil from the old tank location and installing a tank in a new location. Both heating oil tank locations were parallel to the back wall of the American Cleaners building. The old tank was closer to the back door and the new tank is closer to the northwest corner of the building. Those early reports included:

- Phase I Environmental Site Assessment for Caldor Shopping Center, by HRP Associates (October 1999).
- Phase II Environmental Investigation Report by HRP Associates assisted by Anson Environmental (April 18, 2000) included here in Appendix E.

The RIR prepared by Mid-Hudson Geosciences (2010) was based in part on previous work documented in the following workplans and reports prepared by Berninger Environmental:

- Site-Specific Health and Safety Plan (Berninger, September 2002)
- Voluntary Investigation Work Plan (Berninger, March 2003)
- Voluntary Cleanup Program Interim Report (Berninger, Nov 2003)
- Voluntary Cleanup Program Report (Berninger, April 2006)
- Supplemental Investigation Work Plan (Berninger, May 2008)
- Proposed Supplemental Investigation Work Plan (Berninger, Sep. 2008)
- Quality Assurance/Quality Control Project Plan stated in Work Plans by Berninger Environmental, Inc. (date unknown)

The majority of the work proposed in the May 2008 work plan was completed by Berninger prior to the takeover of consulting tasks by Mid-Hudson Geosciences. At Berninger's soil boring locations, soil sampling and installation of monitoring wells were not completed. Mid-Hudson Geosciences reviewed the work plan and prepared an alternative work plan for NYSDEC review dated July 22, 2009. The plan was approved and the fieldwork conducted in November 2009. Eight new monitoring wells were installed at the soil boring locations. A complete round of

ground water samples was taken in January 2010 as well as soil and sediment samples from the storm water drainage system next to Route 211.

At the time of the preparation of the April 2010 RIR, the investigative work had consisted of collection of soil samples, groundwater samples and soil gas samples around the American Cleaners building and in the parking lots between American Cleaners and the Cheeseburger Paradise Restaurant and between American Cleaners and the MHV Credit Union Building (the original location closer to Route 211 at the same elevation as the Cheeseburger Paradise Restaurant and the vacant Video Store). Ambient air samples and sub-slab gas sample were taken at the HMV Credit Union Bank, the Cheeseburger Paradise Restaurant and the vacant Video Store Building (Figure 5-7). The RIR provided summaries and interpretations of that data for use in selecting appropriate remedial actions. The findings of the RIR (2010) are summarized in section 5.1.2 below so the data and maps can be compared with new information.

Reports prepared by Mid-Hudson Geosciences included:

- Remedial Investigation Report (April 10, 2010)
- Remedial Action Selection Report (June 19, 2010)

In 2011, NYSDEC required a NYS licensed PE to prepare a Soil Vapor Extraction Design Plan and subsequently in 2012 a Remedial Action Work Plan. Those two reports were prepared by Geovation Engineering, P.C of 2016 Route 284, PO Box 513. Slate Hill, NY 10973 and signed and stamped by Robert Zimmer, P.E. NYS License Number 082496-1 as listed below:

- Soil Vapor Extraction Design Plan prepared by Geovation Engineering, P.C.  
(November 15, 2011)
- Remedial Action Work Plan prepared by Geovation Engineering, P.C.  
(February 22, 2012)

In May of 2012, the engineering responsibilities were assumed by Jolanda G. Jansen, P.E. (NYS License Number 068972-1) of Jansen Engineering, PLLC of 72 Colburn Drive, Poughkeepsie, NY 12603. Reports prepared by Jansen Engineering and Mid-Hudson Geosciences include:

- Remedial Investigation Work Plan: Re-Evaluation of On-Site Contamination  
(June 2012)
- Modification to February 2012 Remedial Action Work Plan (September 2012)
- Modification 2 for February 2012 Remedial Action Work Plan (October 29, 2012)
- The Supplemental Remedial Investigation Report (May 2013) presented all of the laboratory analyses resulting from the work proposed in those three documents and interpretation of the results in light of on-site contamination and remediation. The report included documentation of the two remedial actions implemented for Operable Unit #1: (1) Sub-slab Vapor Extraction System and (2) Excavation and Disposal of Contaminated Soil by the back door.

## 1.7 Constituents of Potential Concern (COPCs)

Based on the Site history and investigations listed above, the following include constituents of potential concern:

Soil: VOCs  
Groundwater: VOCs  
Soil Vapor: VOCs

Specifically, Tetrachloroethylene (PCE or perc) is the most prevalent chemical of concern since it was used in the dry cleaning process. During UST replacement, BETX (benzene, ethylbenzene, toluene, xylenes) chemicals were found, but most were removed with the soil and are not detected in groundwater as discussed in Section 1.3. Contamination in the soil and soil vapor is mostly confined to under the building. Contamination in groundwater is from the building and downgradient to the north, where the end of the plume is detected in the last monitoring well MW34.

## 2.0 SITE PHYSICAL CHARACTERISTICS

The American Cleaners building is located within the former Caldor Plaza, located in the Town of Wallkill adjacent to the City of Middletown (Figure 1-3). American Cleaners has a lease for a parcel of 0.968 acres identified as Lot 2 on the survey map prepared by Lanc & Tulley last revision of June 12, 2009 (Figure 2). The 19.26 acre Caldor Plaza site is owned by Wallkill Acquisitions, LLC. The 82 by 60 foot American Cleaners building is located on the west side of the lot and parking spaces cover most of the area in front of the Cleaners.

### 2.1 Site Topography and Drainage

The entire Caldor Plaza slopes northward from Carpenter Avenue down to Route 211. The Caldor store building is a gigantic big building at the top of the slope overlooking a huge area of paved parking lot. Surface water drains on the pavement. There are a few storm water collection grates with underground drainageways down to a discharge point directly north of the American Cleaners building. A vegetated gully leads from the parking area near American Cleaners down to the discharge point on the south side of Route 211. From there the drainage pathway is a concrete passageway under Route 211 and then eastward under Silver Lake-Scotchtown Road and continuing eastward under the body shop, exposed at the surface and flowing to Silver Lake entering the southwest corner of the Lake.

Drainage in the Caldor parking lot tends to seep into and out of the pavement. During and after storms, some low places remain wet for a day or two. In other locations a few days after a storm, water seeps out onto the pavement and often evaporates there or freezes in winter. Another storm water drainage pond lies in the area directly behind (west of) the American Cleaners Building. Presumably water from the pond enters the subsurface drainage system.

## 2.2 Geology & Hydrogeology

Saturated sediments are found within the overburden at the American Cleaners site and PCE contaminants are confined to the water-bearing zones within the overburden. The thickness of the overburden increases downgradient from a few feet on the south side of the Plaza to more than 20 feet at the northern extent of the Plaza area along Route 211. A fence diagram (Figure 4-1) and a north-south cross section (Figure 4-2) show the relationship of overburden sediments and water-bearing zones and the potentiometric surface.

### 2.2.1 Unconsolidated Overburden

Much of the overburden beneath the pavement at Caldor Plaza consisted of glacial sediments, mainly till and wind-blown silt deposits. The water-bearing zones occur in thin stringers of glacial pebbles and fractured rock. The water bearing zones are very permeable compared to the very tight till and silt deposits. Downgradient from the level of American Cleaners, much of the area was filled in prior to building on the steep slope down to Route 211. Layers of asphalt in the fill indicate the location of former parking lots.

### 2.2.2 Bedrock

Bedrock was encountered in only one boring. Black shale was found at a depth of 20 feet below ground surface in the boring for a Monitoring Well identified at T6. That well was subsequently paved over when the burger place was built where the former credit union was located. T6 was sampled a few times before it disappeared.

### 2.2.3 Hydrogeology

As a result of asphalt deterioration, vertical infiltration of precipitation occurs throughout much of the parking area at Caldor Plaza. Rainfall and snow melt on the entire parking area supply surface water to infiltrate and replenish the shallow water-bearing zones in the overburden. The potentiometric surface lies above the actual water-bearing zone in downgradient locations relative to the American Cleaners building (Figure 4-2). The water-bearing zones tend to be deeper and thicken going downgradient. The depth and thickness of the water-bearing zones will be very important for injecting the remediation materials into the plume to expedite a timely cleanup.

## 2.3 Climate

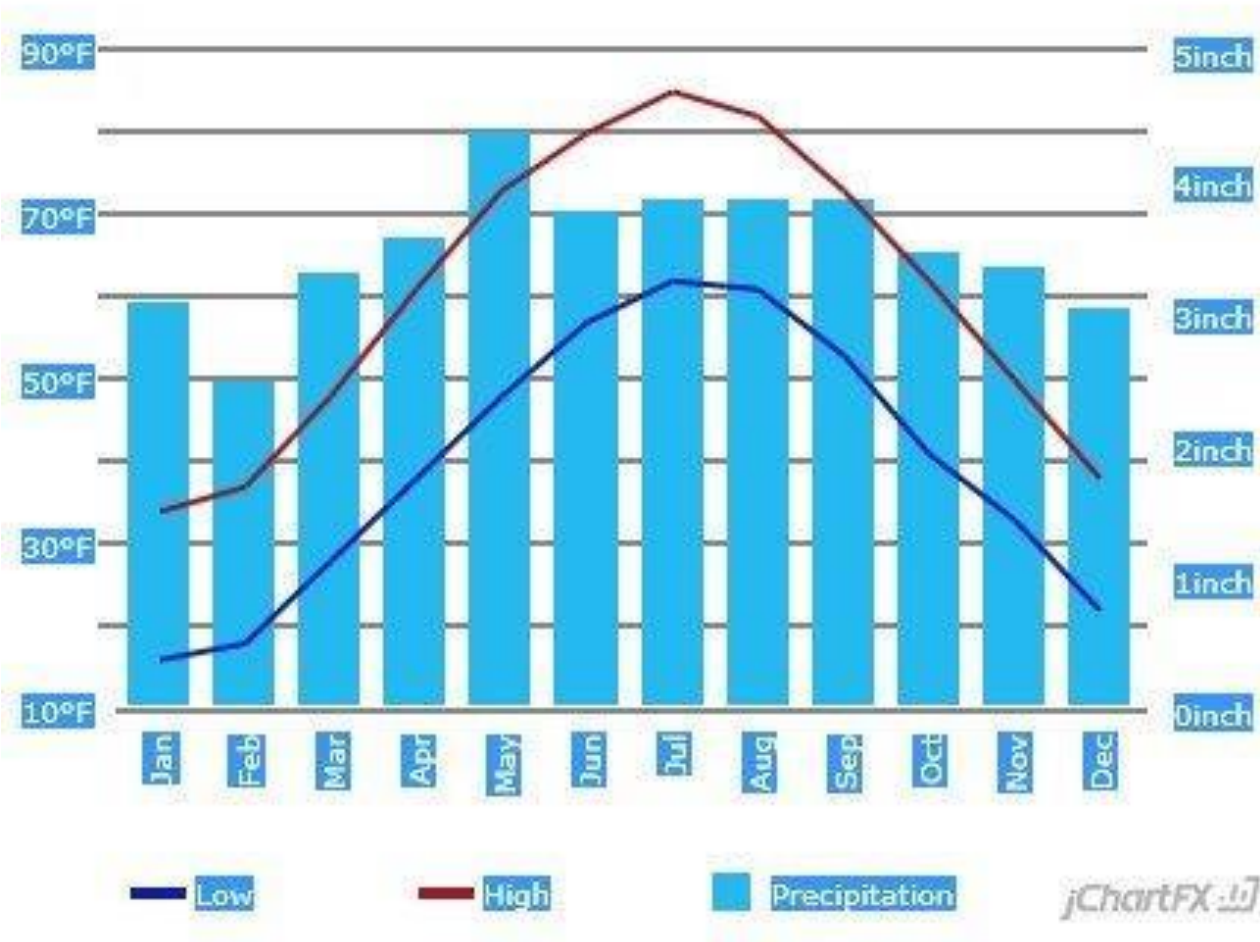
### *Climate of Orange County in the Mid-Hudson Region of New York State*

High and Low Temperature Averages by Month.

Precipitation Averages by Month.

The average US city gets 26 inches of snow per year. The average number of days with any measurable precipitation is 79. On average, there are 218 sunny days per year in Middletown (zip 10940), New York. The July high is around 83 degrees.

Weather: 64°F (18°C), Wind SW at 5 mph (8 km/h), 79% Humidity



Prevailing winds from West.

Some storms from Atlantic Ocean and Lake Erie and Lake Ontario.

## 2.4 Population and Land Use

Wallkill is a town in Orange County, New York, United States. The population was 27,426 at the time of the 2010 census. The Town of Wallkill is centrally located in the county. Interstate 84 crosses New York State Route 17 in the southern part of the town. Wallkill wraps around the City of Middletown on the north and east sides. The area of the town is 62.82 mi<sup>2</sup>. The Caldor Plaza lies in an intense retail district with all kinds of big box stores and shopping along Route 211, north and south of the exits from Route 17.

## 2.5 Utilities and Groundwater Use

The Site has access to all major public and private utilities, including potable water, sanitary sewer, and natural gas from underground pipelines entering the building on the north side.

Electricity is supplied in 115 and 230 volts via overhead line from a pole to the northwest of the building. Telephone is supplied from the same pole but underground.

Groundwater at the Site is assigned Class "GA" by 6NYCRR Part 701.15. Currently, there are no known deed restrictions on the use of groundwater at the Site and there are no groundwater supply wells on the property. Regionally, groundwater has not been developed for industrial, agriculture, or public supply purposes. Municipal potable water service is provided to the Site and surrounding area by the Orange County Water Authority with water distribution by the Town of Wallkill.

## 2.6 Wetlands and Floodplains

There are no State or Federal wetlands or floodplains located on the Site. As mentioned above the storm water from the Site is conducted under two roads and a building and released in a stream bed to Silver Lake to the northeast.

## 3.0 REMEDIAL INVESTIGATION APPROACH

Many investigative efforts have been conducted at American Cleaners Middletown over the many years of data collection, evaluation, and proposed remediation. The simplest way to look at those tasks is to review the table of Laboratory reports over the years (Table 1A in this report and the Supplemental RIR). As shown on Table 1A, all analytical work was conducted by York Analytical Laboratories of Stratford, CT except for two sets of soil vapor analyses conducted by Alpha Analytical of Mansfield, MA. Table 1B lists four sampling events, two for soil vapor and two for groundwater, conducted in 2017, requiring Data Validation.

### 3.1 Soil Investigation

As part of the reevaluation of Tetrachloroethylene contamination at the Site initiated in summer of 2013, soil sampling included soil sample collection in the back parking lot up to the back door, analysis of sub-slab soil from the proposed vapor extraction pit, and sampling during remediation of the back door soil.

#### 3.1.1 Subsurface Soil Sampling

All samples were tested with a PID and placed in jars for laboratory analysis. Trip blanks and equipment blanks were part of the quality assurance protocol. The jars were placed in secure coolers with ice and with chain-of-custody. The laboratory picked up the sealed sample container the next day and took it to the lab.

#### 3.1.2 Soil Sample Analysis

The laboratory analyzed the soil sample by US EPA Method SW846-8260B for the full list of Volatile Organic Compounds.



### 3.2 Soil Vapor Assessment

Soil vapor samples were collected from under the paving in the parking lot and from beneath the slab in the building. All soil vapor samples were collected with Summa Canisters with one hour vacuum withdrawal. All laboratory soil vapor analyses were conducted with US EPA Compendium TO14A/TO15. Soil vapor beneath the pavement was proven to not be significant and no cleanup was required. Sub-slab soil vapor required design and installation of an Active Vapor Extraction System using a 1 horsepower Regenerative Blower to remove vapors from beneath the slab and discharge them through activated carbon to the atmosphere above the roof.

### 3.3 Groundwater Investigation

Several monitoring wells were installed at American Cleaners prior to Mid-Hudson Geosciences taking over the consultation. Groundwater sampling had occurred in 2003 and 2005.

#### *3.3.1 Monitoring Well Installation and Development*

A summary of monitoring well installation is shown in Table 2 originally prepared for the RIR dated April 2010. When it came time to sample monitoring wells in 2016, it was discovered that two downgradient wells were paved over. Two new wells were installed. MW34 replaced T7 and MW32 replaced MW28. At the suggestion of NYS DEC, a third new well, MW33, was installed west of MW32 to determine if PCE is within the groundwater that far west of MW32. The center of the plume has been estimated to be part way between those two wells.

In 2009, eight additional wells were installed (MW21, 22, 24, 25, 26, 28, 30, and 31).

In 2009, before sampling of the existing and new monitoring wells, all wells were developed to be sure that as much fine material as possible had been removed from the wells to assure silt-free samples. At least 10 gallons were pumped from each well. A whale pump was used on the 2-inch diameter wells and a peristaltic pump was used on the 1-inch wells. The purge water was taken over to the back door of the building and the American Cleaners personnel disposed of the water in the “cooker” by vaporization to the outside air.

#### *3.3.2 Groundwater Sample Collection & Analysis*

During the January 2010 groundwater sampling event, all known and accessible monitoring wells were sampled and analyzed for VOCs by US EPA Method SW846-8260 by York Analytical Laboratories. For the sake of the re-evaluation sampling event as defined in the RIWP (6/12), five monitoring wells in downgradient locations were selected for sampling to determine if concentrations were changing with time as shown on Figure 5-9.

Groundwater samples were collected from monitoring wells using the US EPA Low Stress (Low Flow) Purging and Sampling Procedure for Collection of Ground Water Samples from Monitoring Wells (US EPA Region 1, July 30, 1996, Revision). A peristaltic pump and new tubing was used to purge each well prior to sampling. The method produced a limited amount of purge water while achieving equilibrium of water quality parameters by repeated measurements

and a very low pumping rate, thereby assuring a fresh representative sample of groundwater from the surrounding formation. The following steps describe the method:

- At 3-5 minute intervals, depth to water is measured with a water level indicator
- Rate of flow and volume of water pumped is measured with a calibrated 1000-milliliter cylinder and a watch with second hand;
- Pumping rate of flow is established at 0.1 to 0.4 liters per minute using a variable speed peristaltic pump with dedicated ¼ inch tubing, pre-measured to the correct length for each well;
- For the same time interval, water quality parameters are measured including pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation reduction potential. During the purging process, stabilization of field indicator parameters includes less than the following percentage change over three sets of successive measurements made with the Horiba:

Turbidity	10%
Dissolved Oxygen	10%
Specific Conductance	3%
Temperature	3%
PH	+ / - 0.1 units
ORP / Eh	+/- 10 millivolts.

- After about 20 minutes, when the water quality parameters usually stabilize, samples are collected in 40-milliliter glass vials with HCl preservative.
- After measuring those water quality parameters, the purge water is saved for disposal.
- Purge water was taken to the building and disposal was by evaporation in a distillation unit on premises.
- Quality Assurance samples were collected as follows: one trip blank originating from York Laboratories, one equipment blank passed through a length of clean ¼-inch polyethylene tubing, matrix spike and matrix spike duplicate samples.
- All samples were shipped with ice packs and chain of custody to York Analytical Laboratories for analysis by US EPA Method SW-846-8260B for the full list of analytes.
- The NYSDEC ASP Category B data package was requested.
- Water Levels were measured and recorded after the completion of sampling.

In addition to the groundwater sampling listed in Table 1 for July 2012 and January 2010, a recent round of groundwater samples was collected on April 13 and June 6, 2017 (Table 2). The second sampling event was delayed from April to June because the monitoring wells, which were paved over, required replacement and development.

### 3.3.3 Groundwater Elevation, Flow, and Gradients

After groundwater sampling in January 2010, a rotary laser was used to establish the elevation of all 25 monitoring wells. The elevations of the potentiometric surface of groundwater were mapped to show the groundwater gradient (Table 3A and Figure 4-5, RIR, April 2010).

Groundwater was generally found to flow from south to north, flowing into a funnel shape area downgradient from the American Cleaners Building with flow centered under the grassy area between the Cheeseburger Paradise and Credit Union Buildings. The North-South Cross Section shows the gradient of the potentiometric surface at a ratio of 19 feet vertical drop over a horizontal distance of 470 feet resulting in a gradient of 0.0404. The potentiometric surface has a steeper gradient than the land surface as is easily seen when comparing the land and potentiometric surfaces and observing that the water surface goes deeper as the land surface slopes to the north (Figure 4-2).

In August 2017 a third survey was conducted by Lanc & Tully to provide geographic coordinates and elevations of the top of monitoring wells (Table 3B and Figure 3). For all eleven wells in both surveys, the elevation differences have an average value of 0.12 inches. Given the length of time between the two surveys and the high traffic volume of trucks with greater weights behind the building, it is quite possible that the elevations may have changed. Most interesting is that the elevation of T-5 was precisely the same value to the nearest hundredth of a foot. T-5 is located in the grassy area where there is no traffic (Figure 4-5).

### 3.4 Storm Sewer Assessment and Investigation

Based on inspection of historical air photos from Google Earth Pro, after the huge Lloyd Shopping Area was demolished, by April 2001 a storm drainage detention pond was placed south of the Cheeseburger Paradise building on the opposite side of the road running between plaza areas. Sometime between April 2004 and October 2006, the pond was moved farther south to a location directly behind the American Cleaners Building. It is difficult to see because there are trees and brush along the property boundary. These ponds were both designed to collect storm water runoff draining downhill from Carpenter Avenue northward toward Route 211.

In the earliest survey of Caldor Plaza (Lanc and Tully, June 2008, Revised 2009, Figure 2), there are many storm water drainage grates located in the parking lots labeled "CB" next to a square symbol. The "CB" symbols seem to be in a line from the south end of the sidewalk in front of American Cleaners going north toward the CB in the north driveway to a grate in the grassy area to two grates on either side of the entry road from the Shop Rite Plaza to the west. As mentioned above in Section 2.1, surface water drains on the pavement. There are a few storm water collection grates with underground passageways down to a discharge point directly north of the American Cleaners building. A vegetated gully leads from the parking area near American Cleaners down to the discharge point on the south side of Route 211. From there the drainage pathway is a concrete drainageway under Route 211 and then eastward under Silver Lake-Scotchtown Road and continuing eastward under the body shop exposed at the surface and flowing to Silver Lake entering the southwest corner of the Lake.

Unless surface runoff containing Tetrachloorethylene flowed into a catch basin (CB) grate, it is not likely any contamination from the American Cleaners operations would enter the underground stormwater system. At one time there was a monitoring well near the grate to the northeast of the building, but subsequently it was destroyed by heavy traffic. Water collected in July 2003 from MWSSD showed no VOCs as listed on Table 10 and Figure 4-5.

Sediments and stream water were measured in the east-flowing stream running along the south side of Route 211. The origin of all the stream flow is unknown; however, the 2014 Lanc and Tully Survey (Figure 3) for the Caldor Plaza shows an underground stream emerging there and extrapolation of groundwater along the North-South Cross Section (Figure 4-2) of American Cleaners shows the groundwater from under the Site emerging into the stream. Sampling in January 2010 showed no VOCs on the sediments or in the stream water (samples SW1, SW2, Sed1, Sed2 on Table 17 and Figure 5-18).

### 3.5 Field Specific Quality Assurance / Quality Control Sampling

For each set of samples sent to the laboratory, if appropriate, trip and equipment blanks, duplicate samples, matrix spike, and matrix spike duplicate samples were sent to New York State-certified laboratory and the NYSDEC ASP category B quality assurance data package and Electronic Data Deliverable (EDD) Excel data files were requested from the lab as deliverables. Such EDD files will be submitted to NYSDEC for inclusion in the EQuIS database as an accessory to this report.

Data Validation is a second step in QA/QC procedures in which a qualified independent laboratory chemist reviews all of the laboratory procedures quantified and qualified in the NYSDEC ASP Category B QA Data Package prepared by the analytical laboratory. The data validator provides the DUSRs defining the usability or limitations of the use of data in regulatory compliance.

If any samples are classified as not passing the usability test, one can ask questions of the Data Validator with respect to the specific situation and the bearing of the result on the project use of the data.

### 3.6 Data Usability Summary Reports

Nine sets of samples were collected from the American Cleaners Middletown site (Table 1) between January 2010 and November 2012. Each set of samples was analyzed by a NYS-certified laboratory, most by York Analytical Laboratories in Stratford, CT and one set by Alpha Analytical in Mansfield, MA. For each set of samples, a laboratory report was provided in three formats: regular lab report in pdf, NYSDEC ASP category B pdf, and NYSDEC EDD (electronic data) in Microsoft Excel format. Each file was available for each data set with the exception of an EDD file for the groundwater sampling event of January 2010. That format was not required by NYSDEC until a later date and the lab did not have the data in a format which could be converted without intense manual labor.

All data sets were sent to Mr. Michael Fifield at EnviroAnalytical in Utica, NY for data validation. Also he agreed to facilitate input of the EDD files into the NYSDEC EQuIS database.

In 2017 four additional data sets from York Analytical Laboratories were submitted to Ms. Nancy Potek for data validation and Data Usability Summary Reports (DUSRs). The validation

tasks involved a review of the summary form information and sample raw data, and a limited review of associated QC raw data. Specifically, the following items were reviewed:

- Data Completeness
- Laboratory Case Narrative
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Trip/Method Blanks
- Laboratory Control Samples (LCS)
- Field Duplicate Correlations
- Matrix Spike Recoveries and Duplicate Correlations
- Instrumental Tunes
- Calibration Standards
- ICP Serial Dilution Evaluations
- ICP Interference Check Samples
- Method Compliance
- Sample Result Verification

All of the DUSRs are provided in an Appendix to this report. With respect to groundwater testing at American Cleaners Middletown, there were no samples classified as not useable for site regulatory compliance.

### 3.7 NYSDEC EQuIS Deliverables

EQuIS is an environmental data management system selected by the NYSDEC to manage all of their environmental, geotechnical, and limnological data. As of April 2011, all investigation and post-cleanup monitoring data submitted to the Division of Environmental Remediation (DER) under a remedial program (i.e., State Superfund, Brownfield Cleanup Program, Environmental Restoration Program, Petroleum Spills, Voluntary Cleanup Program, or Consent Order) must be concurrently entered into New York State's designated EQuIS Database in Electronic Data Deliverable (EDD) format. This necessitates upload of the laboratory analytical results as well as the geographic location (survey coordinates) of the sampling points. Both data validators, Mr. Michael Fifield and Ms. Nancy Potek provided all of the the laboratory data sets to NYS DEC in the EQuIS Deliverable format.

### 3.8 Site Mapping

The monitoring wells near the American Cleaners Building had been surveyed by the previous consultant. When new monitoring wells were installed in 2009, a survey was conducted in 2010 to obtain the elevations of each of the new wells and the T-series of monitoring wells which had not been surveyed. The distances of wells from known objects were measured and plotted on copies of the original survey map and air photos to prepare accurate basemaps.

As mentioned above, in August 2017, Lanc and Tully was hired to provide the Northing and Eastings and elevations of the significant monitoring wells and coordinates for the corners of the

building (Table 3B and Figure 3). The new information was used to prepare a new set of basemaps.

The basemaps have been used to plot the potentiometric surface of the groundwater and the PCE plume concentrations measured in monitoring wells (Figures 4-5, 5-9, 5-18).

## 4.0 REMEDIAL INVESTIGATION FINDINGS

Since this report is primarily concerned with Operable Unit #2, the groundwater at American Cleaners Middletown, those findings will be described in detail. The soil and soil vapor findings are primarily in Operable Unit #1 and are described in the Construction Completion Report, so those findings will be abbreviated in this report.

### 4.1 Soil

The soils collected from under the parking lot at former hot spots under the blacktop outside the and behind the building in May and July 2012 resulted in one shallow sample at one location (Sample ACMS12S) exceeding the SCS for PCE of 1300 µg/kg (ppb). That sample, ASCM12S, *by the back door* showed a concentration of 3900 ppb PCE plus 47 ppb TCE, which is greater than the SCS of 1300 µg/kg. However, the deeper sample (3 feet below blacktop surface) at the same location, ASCM12D, had a concentration of 210 ppb for PCE.

At three feet deep and 9 feet from the two building walls, sample ACMS11 forms a square area of 9 by 9 feet by 3 feet deep yielding 243 cubic feet or 9 cubic yards of soil to excavate. Removal and disposal of the contaminated soil was the selected remedy because it would permanently remove the soil from the area and no additional treatment was needed because confirmatory samples on the sidewalls and bottom of the excavation were sampled and found to be "clean."

Sub-Slab soil samples were obtained after three extraction points were installed in the area of the highest PCE concentrations detected in sub-slab soil. The central location at XP2 was enlarged to a 6-inch diameter boring and two soil samples were collected and analyzed on September 27, 2012. The different concentrations of PCE indicates that the highest value (1,200,000 µg/kg) is near the top of the soil underlying the slab (15 inches below the floor) and far less (820 µg/kg) has seeped deeper into the soil (25 inches below the floor).

### 4.2 Soil Vapor

With Summa canister testing of soil vapors in August 2012, PCE vapors beneath the blacktop at locations SG25 and SG11 were significantly lower than reported as "Hot Spots" in November 2005 and June 2003, respectively. PCE concentrations were below the NYSDOH guidance value of 15 ppbV or 100 µg/m<sup>3</sup>. Because the concentrations of PCE vapor in those *two parking lot locations* were an order of magnitude lower than the NYSDOH guidance value, there is no need for remediation in the locations of sampling points SG25 and SG11 (Table 16).

The *sub-slab* Summa Canister sampling on August 14, 2012 from extraction point XP2 (Figure 5-10) was shown by US EPA Method TO-15 laboratory analysis to contain 27,200  $\mu\text{g}/\text{m}^3$  PCE compared to 20,000  $\mu\text{g}/\text{m}^3$  detected in a nearby sample SSV-1 collected on November 19, 2005. Those concentrations indicated the need for a sub-slab vapor extraction system to remove volatile organic compounds from the inter-granular pores of the gravel beneath the slab. By removing the volatile gases from the pore space with a regenerative blower, the vapor pressure will be lowered and more VOCs will volatilize and continue to flow through the treatment system. Construction of the sub-slab vapor extraction system and performance tests are provided in the Construction Completion Report.

### 4.3 Groundwater

Groundwater sampling has occurred on five occasions at American Cleaners Middletown: July 2003, December 2005, January 2010, July 2012, and April-June 2017. The presence of Tetrachloroethylene breakdown products of Trichloroethylene and cis1,2-Dichloroethylene in the groundwater samples seemed to be an indication that natural breakdown of PCE was occurring in the groundwater.

#### 4.3.1 Downgradient Groundwater Sampling

On Figure 5.5 (RIR, 04/10/10), concentrations of PCE and breakdown products are shown next to each monitoring well from the January 2010 sampling event. Five monitoring wells in downgradient locations were selected for sampling shown by circles on Figure 5-9. Groundwater samples from the five wells and quality assurance samples (matrix spike, matrix spike duplicate) were collected on July 11, 2012. Laboratory results are shown on Table 17 and Figure 5-9 for the 2010 and 2012 monitoring well sampling events.

Laboratory results from the 2010 and 2012 groundwater samples were compared to evaluate the potential for contaminant degradation by natural attenuation.

#### 4.3.2 Comparison of Laboratory Results of Five Groundwater Sampling Events

For the measured concentrations of PCE and breakdown products in the five groundwater sampling locations, the order of magnitude was unchanged from 2010 to 2012, except in monitoring well T5 where the concentrations of PCE, cis12DCE and TCE increased by one order of magnitude. In well MW26 the concentration of 2600 (2010) and 2200 (2012) ppb PCE are the highest concentrations observed on-site. Directly downgradient from well MW26, well T7 exhibited values below the 5  $\mu\text{g}/\text{L}$  groundwater standard for VOCs with 1.0 J in 2010 and 4.0 J in 2012. In those samples, those concentrations were the measurements for dis12DCE, a breakdown product of PCE. The "J" flag indicates that the analyte is detected below the reporting limit but greater than the method detection limit (MDL). Therefore, "J" flagged values are considered estimates. In other words, as groundwater flows downgradient, the last monitoring well in which PCE is detected is MW28 with 270 (2010) and 250 (2012)  $\mu\text{g}/\text{L}$ . In all five wells, except T7, dis12DCE and TCE were detected, except in MW28 where TCE was not detected.

The contour map of the PCE concentrations is virtually unchanged for the two sampling events. The important feature of the pattern of concentrations is that the end of the plume is located between MW28 and T7. Both sets of groundwater sampling events support this conclusion. Because the downgradient extent of the plume has been identified no farther drilling is recommended. Groundwater sampling is appropriate to monitor degradation of chlorinated solvents in the five downgradient wells.

The existing “Plume” is approximately 350 feet long and width of approximately 50 feet near the south side of the American Cleaners Building. The injected treatment fluid will have to come in contact with groundwater with low concentrations of dissolved PCE in the 4-foot thick transmissive water-bearing zone over an area of 17,500 square feet or a volume of 70,000 cubic feet of sediments with a porosity of perhaps 10 percent containing groundwater. By examining the North-South Cross Section (Figure 4-2), one can see that the depth of the top of the plume or the transmissive water-bearing zone increases from south at about 5 feet near the building to about 10 feet at the location of MW34 in the Carl’s Jr. Parking Lot.

#### 4.4 Storm Water/Sediment

As stated above: Sediments (SED1 and SED2) and stream water (SW1 and SW2) were sampled in the east-flowing stream running along the south side of Route 211. The origin of all the stream flow is unknown; however, the 2014 Lanc and Tully Survey (Figure 6) for the Caldor Plaza shows an underground stream emerging there and extrapolation of groundwater along the North-South Cross Section of American Cleaners shows the groundwater emerging into the stream. Sampling in January 2010 showed no VOCs on the sediments or in the stream water. Sampling locations are shown on Figure 4-5 near the top of the page.

#### 4.5 Summary of Remedial Investigation Findings

Soil and soil vapor contamination are described above in sections 4.1 and 4.2. Remediation of PCE contamination in those media is described in detail in the Construction Completion Report (October 2017) and the Supplemental RIR (May 2013).

PCE contamination in groundwater is described in this report. The plume has not been degrading naturally in spite of the presence of PCE breakdown products in many groundwater samples as quantified in time and space in Table 17 and Figures 5-18. For that reason, a more speedy remediation is required and proposed in the Remedial Action Work Plan associated with this document.

## 5.0 FATE AND TRANSPORT OF SITE CONTAMINANTS

Analytical results for sampling of soil, soil vapor, and groundwater are considered in conjunction with physical characteristics of the Site to evaluate the fate and transport of contaminants of potential concern within the Site media and air. The mechanisms by which chlorinated solvent contaminants can migrate to other areas or media as well as potential exposure pathways are described below.



## 5.1 Fugitive Dust Generation

Volatile and non-volatile chemicals present in soil can be released to ambient air as a result of fugitive dust generation. The majority of the Site is covered by the building, asphalt parking lots, a concrete slab by the back door (Figure 7). For that reason, there are no areas where soil or fill is exposed to the air. Future redevelopment or use of the Site is unlikely to be very different in terms of land cover. The location in the commercial plaza will assure an industrial or commercial land use into the foreseeable future. Since the soil samples tested in the back parking area resulted in concentrations below unrestricted SCOs for chlorinated solvent contaminants, those soils are considered “clean.” In the area right by the back door where PCE contamination was higher, the contaminated volume of soil was removed and disposed of at an appropriate landfill. The excavation was backfilled with item four and a concrete slab was poured just below the level of the back door threshold. Therefore, generation and migration of fugitive dust is not a relevant pathway of exposure given the current and future land use (commercial) as long as paved asphalt and concrete paving, buildings, and vegetated areas across the Site are maintained.

## 5.2 Volatilization

Volatile chemicals, when present in soil and/or groundwater at elevated levels, may be released to ambient air or building indoor air through volatilization from or through the soil pore space. Volatile chemicals typically have a low organic-carbon partition coefficient ( $K_{oc}$ ), low molecular weight, and a high Henry’s Law constant.

Chlorinated VOCs in soil and groundwater below the building are captured by the sub-slab vapor extraction system which vacuums vapor from the permeable gravel layer below the slab through an extraction point with a 1-horsepower regenerative blower. Concentrations of VOCs have been shown to be diminishing by testing at 4 extraction points through the slab. The VES is intended to remain operating until the soil vapor hazard is reduced to below NYSDOH guidance values.

The dry cleaning establishment has an independent contractor test the ambient air in the working environment on an annual basis. All records have indicated that the air meets OSHA requirements. Such testing indicates that use of PCE and potential migration of sub-slab soil gas are not endangering the employees.

Outdoors under the asphalt parking areas, VOCs were not detected in soil at concentrations above RRSCOs; therefore the soil to air pathway is not relevant.

Tetrachloroethylene and other chlorinated breakdown products exist in the groundwater plume downgradient from the building in concentrations exceeding Class GA GWQSGVs. For that reason, groundwater to air may be a relevant pathway until the groundwater is remediated.

The proposed *in-situ* remedy should reduce VOC concentrations to below standards in less than a few years.

### 5.3 Surface Water Runoff

As mentioned in section 3.4, on the earliest survey of Caldor Plaza (Lanc and Tully, June 2008 Figure 2), there are many storm water drainage grates located in the parking lots labeled “CB” next to a square symbol. The “CB” symbols seem to be in a line from the south end of the sidewalk in front of American Cleaners going north toward the CB in the north driveway to a grate in the grassy area to two grates on either side of the entry road from the Shop Rite Plaza to the west. Generally, storm water runoff does not have to travel far to reach a catch basin and be swept away in the underground pipeways. Because the Site is covered with asphalt, the building, and a grassy area, there are virtually zero opportunities for erosion and transport of contaminated soil or sediments. If such material was entrained in runoff, there would be two potential fates: deposition on the asphalt as stormwater infiltrates or transport into the stormwater sewer system. On the pavement, any VOCs would likely volatilize from the sediment into the air. In the sewer system, the material would be collected in a grit chamber or settling basin.

Also there are many areas on the parking lots where the stormwater infiltrates into the blacktop and sediments below. Likewise, there are some locations where the shallow water seeps out into the parking lot. These exchange areas between surface and groundwater exchange seem to be controlled by the topography, the volume of runoff present, and the permeability of the substrate.

### 5.4 Leaching

Leaching refers to chemicals present in soil migrating downward to groundwater as a result of infiltration. Because the majority of the Site is covered with impermeable surfaces that limit surface water infiltration, leaching is a process not likely to create a migratory pathway for chlorinated solvents.

### 5.5 Groundwater Transport

As shown in the fence diagram and north-south cross section as well as water table flow and PCE plume maps, groundwater transport is moving chlorinated solvents from the area of the American Cleaners building downgradient to the north through permeable layers within the tight overburden till with very low permeability. The end of the plume has been detected at the location of T7 in the January 2010 and July 2012 and at MW34 in June 2017 sampling events. The projection of the potentiometric surface of the groundwater and correlation of the hydrostratigraphic transmissive water-bearing zone indicate that the north-flowing groundwater discharges into the east-flowing stormwater stream at the base of the hill on the south side of Route 211.

At last groundwater sampling event (June 2017), the center of the PCE plume at MW 26 shows a concentration of 2300 µg/L, which has only decreased by 300 µg/L from the first sampling at 2600 µg/L in January of 2010. The original interpretation that natural degradation was occurring within the plume is clearly not an effective remedy in the total VOC concentration reaching the Class GA GWQSGV of 5 µg/L. For that reason, a more effective in-situ remedy was deemed necessary.

The Site and surrounding area are serviced by municipal (supplied) water service, with no evidence of potable wells in the area. As such, groundwater transport off-site is considered a relevant migration pathway; however, contaminants present would not reach receptors at significant exposure point concentrations. Laboratory analyses of two samples of the storm water stream at the base of the hill on the east side of Route 211 showed VOCs as “ND” in January 2010.

## 5.6 Exposure Pathways

Based on the fate and transport analysis provided above, the pathway through which contaminants detected on-site could potentially migrate to other areas or media under the current use scenario are: volatilization and groundwater transport.

Under the future use scenario, it is unlikely that site-related contaminants would reach off-site receptors at significant exposure point concentrations based on the: proposed remedial measures; anticipated Environmental Easement that will restrict groundwater for potable use; and active sub-slab vapor extraction system; and NYSDEC/NYSDOH requirements for a Site Management Plan that addresses future site use and potential redevelopment.

## 6.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

The purpose of a Qualitative Human Health Exposure Assessment (or the exposure assessment) is to evaluate and document how people might be exposed to site-related contaminants, and to identify and characterize the potentially exposed population(s) now and under the reasonably anticipated future use of the Site. To evaluate if an exposure pathway exists, the exposure assessment must assess the quality, representativeness and adequacy of the available data. For instance, field data quality, laboratory data quality, and sampling designs need to be appropriate to meet data quality objectives (e.g., detection limits and minimum reporting limits must be appropriate for the evaluation of human exposures).

### 6.1 Receptor Population

The receptor population includes the people who are or may be exposed to contaminants at a point of exposure. The identification of potential human receptors is based on the characteristics of the Site, the surrounding land uses, and the probable future land uses. The Site is currently occupied by American Cleaners within one 60 by 82 foot one-story building. Under current Site use conditions, receptors would include business customers, dry cleaning and laundry workers, and construction/maintenance workers that may be employed to perform work on the property. Customers might be comprised of adolescents and adults, whereas indoor and outdoor construction/maintenance workers would be limited to adults. The reasonably anticipated future use of the Site is for a restricted-commercial purpose, which is consistent with current Site use, surrounding property use and zoning. Exposed receptors under the future use scenario may be comprised of indoor workers, outdoor workers (e.g., groundskeepers or maintenance staff), and construction workers who may be employed at or perform work on the property. Site

visitors/customers may also be considered receptors; however, their exposure would be similar to that of the indoor worker but at a lesser frequency and duration. Therefore, consideration of the indoor worker is conservatively protective of the Site visitor.

## 6.2 Contaminant Sources

The source of contamination is defined as either the source of contaminant release to the environment (such as a waste disposal area or point of discharge) or the impacted environmental medium (soil, air, biota, water) at the point of exposure. Original sources of contamination include disposal of dry cleaning cartridges in the dumpster area, a spill of bulk delivery of dry cleaning liquid when the tank truck hose broke by the back door, and possible spill inside the building on the south side.

## 6.3 Contaminant Release and Transport Mechanisms

The releases of Chlorinated VOCs described above led to contamination of the following media.

- Contaminated soil by the back door was remediated by excavation and disposal in an approved landfill.
- Sub-slab soil and soil vapor are constantly in a state of remediation by the active soil vapor extraction system using a 1 horsepower Regenerative Blower to remove the vapors from an extraction point and exhaust them through an activated carbon treatment canister with discharge to the atmosphere above the rooftop.
- The top of groundwater plume lies from about 6 to 12 feet below ground surface as measured in monitoring wells increasing from the building downgradient to the north near Route 211. The thickness of the transmissive water-bearing zone is approximately 4 feet as shown in the North-South Cross Section (Figure 4-2). The chlorinated VOCs reached the groundwater by infiltration from spills on the land surface and possibly by spills within the building reaching the soil under the building.

## 6.4 Points of Exposure

The point of exposure is a location where actual or potential human contact with a contaminated medium may occur. The two exposure points are generally exposure to the (1) sub-slab soil vapor contaminants if they were to enter the building or migrate outside of the building footprint and (2) dissolved or vapor contaminants in groundwater if somehow accessible in the plume under the building, parking lots, and areas of vegetation.

## 6.5 Route of Exposure

The route of exposure is the manner in which a contaminant actually enters or contacts the body (e.g., ingestion, inhalation, dermal absorption). Based on the types of receptors and points of exposure identified above, potential routes of exposure are listed below:

### Current Use Scenario

- Indoor Customer/ Worker: Inhalation

- Construction and Outdoor Worker: Skin Contact, Inhalation and Incidental Ingestion
- Future Use Scenario
- Indoor Customer/ Worker: Inhalation
- Construction and Outdoor Worker: Skin Contact, Inhalation and Incidental Ingestion

## 6.6 Exposure Assessment Summary

Based on the above assessment, the potential exposure pathways for the current and future use conditions are listed below.

### Indoor Customer/ Worker: Inhalation

As stated above: “Sub-slab soil and soil vapor are constantly in a state of remediation by the active soil vapor extraction system using a 1 horsepower Regenerative Blower to remove the vapors from an extraction point and exhaust them through an activated carbon treatment canister with discharge to the atmosphere above the rooftop.”

The dry cleaning business has been under the same management since 1982 and has complied with work space ambient air testing on a regular basis. There is no evidence of migration of soil vapor through the building concrete slab. This exposure pathway is incomplete because there is no evidence of vapor passage through the slab except through the vapor extraction point which is the remedy.

### Construction and Outdoor Worker: Skin Contact, Inhalation and Incidental Ingestion

As stated above: “The top of groundwater plume lies about in the groundwater from about 6 to 12 feet below ground surface as measured in monitoring wells increasing from the building down gradient to the north near Route 211. The thickness of the transmissive water-bearing zone is approximately 4 feet as shown on the North-South Cross Section (Figure 4-2). The chlorinated VOCs reached the groundwater by infiltration from spills on the land surface and possibly from spills within the building reaching the soil under the building.”

A worker would have to make contact with the groundwater which is not exposed at the land surface to complete the exposure pathway. The groundwater is not known to be accessed by any wells, except for the monitoring wells. For that reason the human exposure to the contaminated groundwater is unlikely except for some excavation activity. Another exposure point has been pointed out as contact with water in the stormwater drainage stream at the north edge of the Mall property on the south side of Route 211. Based on projected groundwater flow, the transmissive water-bearing zone discharges in the base of the stormwater drainage stream. Theoretically, human exposure could occur by contact with the water in the stream. However, the end of the plume has been shown to be at least 60 feet upgradient from the stream (Figure 4-5). Such activities will be addressed under the Site Management Plan with easements, deed restrictions, and institutional controls.

## 7.0 REMEDIAL ALTERNATIVES ANALYSIS

The purpose of remedy selection is to identify, evaluate and select a remedy or alternative remedies to address the analytical chemical nature of contamination and the associated media, identified in Operable Unit #2 groundwater at the American Cleaners Middletown site. The steps to remedy selection are described in DER-10 and followed here.

### 7.1 Remedial Action Objectives

The remedial actions for American Cleaners must satisfy Remedial Action Objectives (RAOs). RAOs are site-specific statements that convey the goals for minimizing substantial risks to public health and the environment. Specifically the following appropriate RAOs have been defined as:

#### Groundwater RAOs

- Prevent ingestion of groundwater containing contaminant levels exceeding NYSDEC Class GA GWQS/GVs or with visual/olfactory evidence of impact.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.
- Prevent degradation of on-site and off-site water quality.

### 7.2 General Response Actions

General Response Actions (GRAs) are broad classes of actions that are developed to achieve the RAOs and form the foundation for the identification and screening of remedial technologies and alternatives.

The GRAs available to address the RAOs for groundwater include:

- Monitored natural attenuation
- Institutional controls
- Engineering controls
- Treatment (e.g., in-situ or ex-situ)

For groundwater at American Cleaners Middletown natural attenuation will not remediate the chlorinated VOCs in the groundwater in a timely manner. For that reason in-situ remediation is under consideration as an active aggressive treatment. Institutional controls may be included in the Site Management Plan after the active in-situ treatment is implemented.

### 7.3 Standards, Criteria, and Guidance

According to DER-10 Section 1.3(b)71, Standards, Criteria, and Guidance (SCGs) mean standards and criteria that are generally applicable, consistently applied, and officially promulgated, that are either directly applicable or not directly applicable but are relevant and appropriate, unless good cause exists why conformity should be dispensed with, and with consideration being given to guidance determined, after the exercise of scientific and

engineering judgment, to be applicable. This term incorporates both the CERCLA concept of “applicable or relevant and appropriate requirements (ARARs)” and the USEPA’s “to be considered (TBCs)” category of non-enforceable criteria or guidance. For purposes of this Guidance, “soil SCGs” mean the SCOs and supplemental soil cleanup objectives (SSCOs) identified in 6NYCRR 375-6.8 and the Commissioner Policy CP-51 on Soil Cleanup Guidance (Ref. 14).

Additional discussions concerning the specific chemical-, action-, and location specific SCGs that may be applicable, relevant, or appropriate to remedy selection at the Site are presented below. In each case, the identified SCGs are generally limited to regulations or technical guidance in lieu of the environmental laws from which they are authorized, as the laws are typically less prescriptive in nature and are inherently considered in the regulatory and guidance evaluations. Table 9 summarizes the SCGs by media that may be applicable or relevant and appropriate to the Site.

The SCGs listed under groundwater in Table 9 define groundwater standards, which are relative to the proposed remediation under consideration in this document. Selection of an alternative for treatment of the PCE plume to bring contaminant concentrations down to comply with the water quality standards for Class GA groundwater is the objective of this evaluation.

### *7.3.1 Chemical-Specific SCGs*

Chemical-specific SCGs are usually health- or risk-based concentrations in environmental media (e.g., air, soil, water), or methodologies that when applied to site specific conditions, result in the establishment of concentrations of a chemical that may be found in or discharged to the ambient environment. The determination of potential chemical-specific SCGs for a site is based on the nature and extent of contamination; potential migration pathways and release mechanisms for site contaminants; reasonably anticipated future site use; and likelihood that exposure to site contaminants will occur.

Previous sampling events included the collection and analysis of subsurface soil/fill, sub-slab soil vapor and groundwater samples. One of the remedial alternatives to be assessed for the Site is in-situ cleanup for groundwater. This approach requires institutional controls (e.g., groundwater and land use restrictions, Site Management Plan, and Environmental Easement) and engineering controls (e.g. active regenerative blower sub-slab vapor extraction system in the existing building) as components of the final remedy to reduce future potential exposure to impacted soil/fill, soil vapor and groundwater.

### *7.3.2 Location-Specific SCGs*

Location-specific SCGs are restrictions placed on the concentration of hazardous substances or the conduct of activities solely because they are in a specific location. Some examples of these unique locations include floodplains, wetlands, historic places, and sensitive ecosystems or habitats. The location of the Site is a fundamental determinant of its impact on human health and the environment. American Cleaners Middletown Operable Unit #2 site is not located in any such sensitive environs.

### 7.3.3 Action-Specific SCGs

Action-specific SCGs are restrictions placed on particular treatment or disposal technologies. Examples of action-specific SCGs are effluent discharge limits and hazardous waste manifest requirements. Neither condition applies to groundwater conditions at American Cleaners Middletown Operable Unit #2.

## 7.4 Evaluation of Alternatives

In addition to achieving RAOs, NYSDEC's Voluntary Cleanup Program calls for remedy evaluation using the following criteria set forth in DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 2) and 6NYCRR 375-1.8(f):

- Overall Protectiveness of Public Health and the Environment. This criterion is an evaluation of the remedy's ability to protect public health and the environment, assessing how risks posed through each existing or potential pathway of exposure are eliminated, reduced, or controlled through removal, treatment, engineering controls, or institutional controls.
- Compliance with Standards, Criteria, and Guidance (SCGs). Compliance with SCGs addresses whether a remedy will meet applicable environmental laws, regulations, standards, and guidance.
- Long-Term Effectiveness and Permanence. This criterion evaluates the long term effectiveness of the remedy after implementation. If wastes or treated residuals remain on-site after the selected remedy has been implemented, the following items are evaluated: (i) the magnitude of the remaining risks (i.e., will there be any significant threats, exposure pathways, or risks to the community and environment from the remaining wastes or treated residuals), (ii) the adequacy of the engineering and institutional controls intended to limit the risk, (iii) the reliability of these controls, and (iv) the ability of the remedy to continue to meet RAOs in the future.
- Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment. This criterion evaluates the remedy's ability to reduce the toxicity, mobility, and volume of Site contamination. Preference is given to remedies that permanently and significantly reduce the toxicity, mobility, or volume of the contamination at the Site.
- Short-Term Impacts and Effectiveness. This criterion is an evaluation of the potential short-term adverse impacts and risks of the remedy upon the community, the workers, and the environment during construction and/or implementation. This includes a discussion of how the identified adverse impacts and health risks to the community or workers at the Site will be controlled, and the effectiveness of the controls. This criterion also includes a discussion of engineering controls that will be used to mitigate short-term impacts (i.e., dust control measures), and an estimate of the length of time needed to achieve the remedial objectives.
- Implementability. The implementability criterion evaluates the technical and administrative feasibility of implementing the remedy. Technical feasibility includes the difficulties associated with the construction and the ability to monitor the effectiveness of the remedy. For administrative feasibility, the availability of the necessary personnel and material is evaluated along with potential difficulties in



- obtaining specific operating approvals, access for construction, etc.
- Cost-Effectiveness. Capital, operation, maintenance, and monitoring costs are estimated for each remedial alternative and presented on a present worth basis. A remedy is cost effective if the costs are proportional to the overall effectiveness.
- Community Acceptance. This criterion evaluates the public's comments, concerns, and overall perception of the remedy. Therefore, community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities, including a public comment period for the AAR.

## 7.5 Anticipated Future Land Use Evaluation

In developing and screening remedial alternatives, NYSDEC's Part 375 regulations require that the reasonableness of the anticipated future land use be factored into the evaluation of remedial alternatives. The regulations identify 16 criteria that must be considered. These criteria and the resultant outcome the American Cleaners Site are presented below.

*1. Current use and historical and/or recent development patterns:* The Site has historically been used for commercial purposes. Ed Lloyd started his huge grocery and everything else store in the mid-1950s on the property immediately to the west. At that time the hill above Route 211 was undeveloped, overlooking the country road. He built a sprawling store with auto repair, groceries, a pharmacy, appliances, restaurant, shoe store, barber shop, and liquor store and just about everything else one finds in today's Wal-Mart type store.

Examination of historic air photos, in 1968 the building layout for Caldor is clearly present although construction had not begun. In another photo from 1974, Caldor is clearly present with large parking lots out in front and driveways from Route 211. Based on the photos, Caldor was probably build and open for business by 1970, as one store in a large chain of department stores in NY, NJ, CT and MA. American Cleaners was built on the Caldor Plaza in 1982 and continues to operate in the same location. A 1994 air photo shows the American Cleaners building on the west side of the Caldor Plaza and the Lloyds building directly west of it on the next parcel. Lloyds went out of business in 1996 from competition of stores built on Ed Lloyd's business model. By 2001, the Lloyds store was completely demolished and a grocery store was build on the western end of the property far from American Cleaners. Caldor went out of business in 1999, but various businesses have continued operations in the main building and outlying buildings. The neighborhood is close to full development as suburban mixed use commercial and light industrial with minor residual residential lots. Future Site use is anticipated to be commercial, consistent with historical use.

*2. Applicable zoning laws and maps:* The Site is located in an area of the Town of Wallkill zoned "Highway Commercial." (HC). American Cleaners as a commercial establishment is consistent with current zoning (Figure 8).

*3. Brownfield opportunity areas as designated set forth in GML 970-r:* The Brownfield

Opportunity Area (BOA) Program provides municipalities and community based organizations with assistance to complete revitalization plans and implementation strategies for areas or communities affected by the presence of brownfield sites, and site assessments for strategic sites. The subject property is not within a BOA.

*4. Applicable comprehensive community master plans, local waterfront revitalization plans as provided for in EL article 42, or any other applicable land use plan formally adopted by a municipality:* The Site lies within the boundaries of the Town of Wallkill Comprehensive Plan. As a commercial structure, American Cleaners and site Remediation are consistent with that Comprehensive Plan.

*5. Proximity to real property currently used for commercial and industrial purposes:* The adjacent and surrounding land is mixed use residential, commercial, industrial, and vacant area. Maintaining the use of the Site in a commercial capacity is consistent with surrounding property.

*6. Any written and oral comments submitted by members of the public on the proposed use as part of the activities performed pursuant to the citizen participation plan:* No comments have been received from the public relevant to Site use concerns. They will be received in response to the Decision Document.

*7. Environmental justice concerns, which include the extent to which the proposed use may reasonably be expected to cause or increase a disproportionate burden on the community in which the Site is located, including low-income minority communities, or to result in a disproportionate concentration of commercial or industrial uses in what has historically been a mixed use or residential community:* Nearby and adjacent property is actively used in a residential, commercial, and industrial capacity. Maintaining use of the Site in a commercial capacity does not pose environmental justice issues.

*8. Federal or State land use designations:* The property is designated as a Highway Commercial District (HC) by the Town of Wallkill. Continued use in a commercial capacity is consistent with the current land use designation.

*9. Population growth patterns and projections:* The Town of Wallkill, encompassing 62.82 square miles, has a population of 27,426 (2010 US Census Bureau). Within a half mile of the American Cleaners site, the City of Middletown has a population of 27,653 and an area of 5.139 square miles. Continued use of the Site as commercial, specifically as a dry cleaning and laundry facility is not expected to have a significant impact on the housing market. Continued use in the commercial capacity provides opportunities for residential growth.

*10. Accessibility to existing infrastructure:* Access to the Site is from Route 211 (north), Carpenter Avenue (south), and Lloyds Lane (west). Utilities (sewer, water, gas, electric) that service the Site, and adjacent and nearby properties are present along these corridors and under the parking lots or on poles. This existing infrastructure supports use in a commercial capacity.

*11. Proximity of the Site to important cultural resources, including federal or State historic or heritage sites or Native American religious sites:* Within a ½ mile of the Site, there are no listings on the NYS Historic Preservation Office GIS mapping website, nor on the National Register of Historic Places. Remediation of groundwater at American Cleaners will have no influence on any known historic sites.

*12. Natural resources, including proximity of the Site to important federal, State, or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species:* There are no significant natural communities within ½-mile of the Site according to the NYSDEC's ERM. Since the Site does not provide wildlife habitat or food value, and no natural resources have been identified, groundwater remediation at the American Cleaners site will not impact natural resources.

*13. Potential vulnerability of groundwater to contamination that might emanate from the Site, including proximity to wellhead protection and groundwater recharge areas and other areas identified by the Department and the State's comprehensive groundwater remediation and protection program established set forth in ECL article 15 title 31:* The chlorinated solvent groundwater contamination appears to be limited to an area west of and downhill north of the American Cleaners Middletown building. The plume does not flow off-site because the most downgradient monitoring wells (T7 and replacement well MW34) show all VOCs as not detected (ND) in laboratory analyses of samples. Also two sediment samples and two surface water samples in the stream flowing off-site next to Route 211 show no signs of contamination. Potable water is supplied to the Site and surrounding area by municipal water departments of the City of Middletown and Town of Wallkill. Cleanup to restricted commercial use conditions will not pose a drinking water threat. However, a deed restriction will be placed on use of groundwater from under the Site.

*14. Proximity to flood plains:* According to the Orange County On-line GIS mapping website, no State or Federal wetlands or floodplains exist within a ½-mile radius of the Site. As such, cleanup to restricted commercial use conditions does not pose a threat to surface water.

*15. Geography and geology:* The Site is located about one mile west of the north-flowing Wallkill River, southeast of the Shawangunk Mountains and northwest of the Hudson Highlands. The Soil Survey of Orange County New York (USDA, 1981) shows that the area of the Caldor-Lloyds Mall is surrounded by Mardin gravelly silt loam, 3 to 8 percent slopes (map symbol MdB). However, the Soil Survey of Orange County New York (USDA, 1981) shows that the area within the Caldor-Lloyds Mall is covered with Udorthents, smoothed (map symbol UH). The general description of the UH soil type. In a word, such Udorthents are "fill." However, in the immediate area of the American Cleaners building, it appears that the top soil in that area was stripped off and moved to the west creating a berm beyond the western curb of the parking lot behind the building. The overburden materials encountered in borings on the "parcel" of land associated with the building seem to be glacial till of both the gray clay variety and the yellow-brown silty material. Borings in the parking lot between American Cleaners and the

Cheeseburger Paradise Restaurant encountered weathering blacktop at depths of 13 feet in MW24 and 11 feet in MW31. Most of that parking lot was once covered by the Lloyd's Store. Once the store was demolished, additional fill was brought in to raise the area up to the level at the south end of the Lloyd's property, where the Shop Rite store is now located. The new parking lot lies on fill that was brought in to level the area and build up the area where the Cheeseburger Paradise lies overlooking Route 211 at higher elevation than the old Lloyd's parking lot. Much of the glacial deposition is till consisting of unsorted mixtures of gravel, rock fragments, sand, silt, and clay. There are two types of till, the gray sticky dense clay till and the yellow-brown compacted silt. Both types have varying proportions of gravel, rock fragments, sand, silt, and clay. Geography and geology are consistent with a residential/commercial reuse.

*16. Current institutional controls applicable to the Site:* No institutional controls are currently in place; however, easements are likely to be filed as the Voluntary Cleanup project continues. Based on the above analysis, use of the Site in a commercial capacity is consistent with past and current development and zoning on and near the Site, and does not pose additional environmental or human health risk.

## 7.6 Volume, Nature, and Extent of Contamination

Estimation of the volume, nature, and extent of media that may require remediation to satisfy the RAOs or that needs to be quantified to facilitate evaluation of remedial alternatives are presented in this section. For the reasonably anticipated future use scenario, the cleanup goal would involve achieving commercial SCOs with respect to soil. Descriptions of the soil sampling involved in Re-Evaluation and excavation and disposal of soil by the back door demonstrate that the commercial SCOs have been met for soil outside the footprint of the building. For the chlorinated solvent plume in groundwater, the water quality standard for class GA groundwater is the desired goal of remediation. The volume and extent of the groundwater requiring such cleanup is presented in Sections 7.6.1. In all instances, these volume estimates (and associated cost estimates presented later in this AAR) are projected based on data collected and observations made during the RI and Re-Evaluation activities.

### 7.6.1 Groundwater Impacts

Chlorinated VOCs were detected above GWQS in groundwater downgradient from the former dumpster area and the back door spill area (Figure 5-18). From east and west, the plume is centered on MW26 with an estimated width of 50 feet. Inspection of Table 17 summary of laboratory analyses of groundwater sampling shows a slight decline in time variation of highest chlorinated VOC concentrations in MW26:

	<u>2010</u>	<u>2012</u>	<u>2017</u>
PCE	2600	2200	1800
TCE	64	58	ND
DCE	64	64	ND

In the longitudinal direction, the plume extends from MW30 near the former dumpster location northward toward MW34 for a length of less than 350 feet. The chlorinated VOCs at T5 and its

replacement well MW34 have been ND or below the GWQS from January 2010 to June 2017 demonstrating that the end of the plume is farther south than the most downgradient monitoring well location.

Using a width of 50 feet and length of 350 feet, the area of the chlorinated solvent plume at American Cleaners Middletown is approximately 17, 500 square feet. From inspection of the North-South Cross Section (Figure 4-2), the vertical dimensions of the plume within the transmissive water-bearing zone are:

	Depth to Water (ft)	Thickness of Water- Bearing Zone (ft)
MW21 (upgradient)	4	2
MW26 (center plume)	7	4
T7 / MW34 (downgradient)	9	4

Assuming the plume is approximately 4 feet thick, the volume of soil and water within the plume in the water-bearing zone is 70,000 cubic feet. However, the volume of the contaminated water is likely about one tenth of that volume or about 7000 cubic feet because groundwater occupies only the pore space between soil particles. By defining the location of the plume, injection of in-situ treatment products shall be placed within the plume for efficient remediation. Injection directly into the plume should make for the most rapid cleanup of chlorinated solvents in the groundwater.

### 7.6.2 Soil Impacts

Descriptions of the soil sampling involved in Re-Evaluation and excavation and disposal of soil by the back door demonstrate that the RRSCOs have been met for soil outside the footprint of the building

### 7.6.3 Soil Vapor Impacts

Based on the Site-specific data and due to the potential for contaminated vapors to travel under a building slab, the entire building footprint (4920 square feet) as shown on Figure 5-10 is defined as the soil vapor intrusion area. Historical vapor sampling and installation of a regenerative blower powered Sub-Slab Vapor Extraction System for Operable Unit #1 are described in a CCR (October 2017). The system is running and will continue to cleanup the soil vapor until asymptotic PCE contaminant conditions are reached.

## 7.7 Alternatives Evaluation

NYSDEC regulation and policy calls for evaluation of a “no action” alternative and reasonable alternatives for cleanup treatment suitable for end-use scenarios. After cleanup, the Site may continue in previous use or adapt to uses allowed by local zoning law. The “no action” alternative provides a baseline for comparison with other alternatives.

### 7.7.1 Choice of Alternatives

Currently the Site is operating with an engineering control being the regenerative blower powered Sub-Slab Vapor Extraction System. That system will likely be operating for the next two years or more, beyond the VCP project schedule requiring this documentation.

The Site is a commercial use within a large town zone designated “Highway Commercial.” Change in zoning is unlikely at least for a few decades into the future. For that reason, Track 1- Cleanup to Unrestricted Residential Use and Track 2- Restricted Residential Use are not reasonable or necessary cleanup objectives.

For those reasons, three remedial actions are considered for this site:

Alternative 1: No Action

Alternative 2: Commercial Use with In-Situ Groundwater Cleanup by  
Chemical Oxidation

Alternative 3: Commercial Use with In-Situ Groundwater Cleanup by  
Enhanced Bioremediation

***Please Note: The evaluation of these alternatives will be simplified to a comparison of Alternative 1 versus Alternatives 2 plus 3 for all of the selection criteria except for implementability and cost-effectiveness. That comparison is appropriate because both in-situ remedies are similar with respect to most of the criteria except for the implementation and cost.***

### 7.7.2 Alternative 1 – No Action

Under this alternative, the Site would remain in its current state, with no remediation or controls in place.

Overall Protection of Public Health and the Environment – The Site is not protective of human health and the environment, due to the presence of contamination remaining on-site above SCGs; and the absence of institutional controls to prevent future site use groundwater. Accordingly, the no action alternative is not protective of public health and does not satisfy the RAOs.

Compliance with SCGs – Under the current and reasonably anticipated continued use scenario (commercial), the contamination detected in groundwater does not comply with applicable SCGs.

Long-Term Effectiveness and Permanence – The no action alternative involves no remedial activities, equipment, institutional controls, or facilities subject to maintenance, and provides no long-term effectiveness or permanence toward achieving the RAOs.

Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment – The no action alternative does not reduce the toxicity, mobility, or volume of contamination beyond natural degradation/attenuation and, therefore, is not protective of public health and does not satisfy the RAOs.

Short-Term Impacts and Effectiveness – The contamination on-site does pose short-term risks to on-site workers and the environment. Therefore, implementation of the no action alternative does not satisfy the RAOs.

Implementability – No technical or administrative implementability issues are associated with the no action alternative.

Cost-Effectiveness – There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no action alternative.

Community Acceptance – Community acceptance will be evaluated based on comments received from the public in response to Fact Sheets and other planned citizen participation activities, including a public comment period for the RI/AA Report.

#### *7.7.3 Alternative 2 & 3 – Commercial Use Cleanup with In-Situ Groundwater Treatment*

Under Alternatives 2 and 3, the Site would be cleaned up to facilitate reasonably anticipated commercial use by in-situ treatment of groundwater. Alternative 2 is cleanup with in-situ chemical oxidation treatment and Alternative 3 is in-situ enhanced bioremediation treatment.

As mentioned above, this section will compare Alternatives 2 and 3 with Alternative 1. Those evaluations will be followed by comparison of Alternatives 1, 2, and 3 for evaluations factors implementability (Section 7.7.5) and cost effectiveness (Section 7.7.6).

Overall Protection of Public Health and the Environment – Alternatives 2 and 3 both meet NYSDEC requirements for cleanup for commercial use under the VCP regulations and is protective of public health and the environment. The RAOs for the Site would be satisfied through the planned extent of groundwater remedial activities and operational soil vapor remedy, also the use of ICs to prevent potential future exposure and limit the future use to commercial purposes. Groundwater quality will be monitored over time in accordance with the SMP. Accordingly, the Commercial Use Cleanup alternatives of chemical oxidation and enhanced bioremediation are protective of public health and fully in accordance with the groundwater and soil vapor RAOs.

Compliance with SCGs – Both remedial Alternatives 2 and 3 will be performed in accordance with applicable, relevant, and appropriate SCGs including NYSDEC DER-10. The Site Management Plan (SMP) will include an EC/IC Plan that describes the procedures for the implementation and management of all EC/ICs at the Site; a Site Monitoring Plan that describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, including operating the Sub-Slab Vapor Extraction System and proposed groundwater remediation; an O&M Plan that describes the measures necessary to operate, monitor and maintain the mechanical components of the remedy selected for the Site; and a Site-wide inspection program to assure that the EC/ICs placed on the Site have not been altered and remain effective.

*Long-Term Effectiveness and Permanence* – Implementing Alternatives 2 and 3, that is in-situ groundwater treatment will effectively and permanently reduce contaminant concentrations on-site and prevent any potential off-site migration. Continued operation of the Sub-Slab Vapor Extraction System will mitigate potential on-site VOC vapor intrusion concerns. An SMP will address potential encounters with contaminants during future Site intrusive/maintenance activities, and provides a mechanism to assure that the EC/ICs placed on the Site have not been altered and remain effective. Furthermore, an Environmental Easement for the Site will be filed with Orange County, which will limit future Site use to commercial uses, restrict groundwater use, and reference the Department-approved SMP. As such, these alternatives will provide long-term effectiveness and permanence.

*Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment* – Both Alternatives 2 and 3 will reduce the toxicity, mobility, and volume of COCs significantly and permanently through groundwater treatment. Continued operation of the Sub-Slab Vapor Extraction System within the existing building will mitigate potential on-site VOC vapor intrusion concerns. The SMP will address potential encounters with contaminants during future Site intrusive/ maintenance activities and a Site-wide inspection program to assure that the EC/ICs placed on the Site have not been altered and remain effective. Accordingly, these alternatives satisfy this criterion.

*Short-Term Impacts and Effectiveness* – The short-term adverse impacts and risks to the community, workers, and environment will be controlled during implementation of either Alternatives 2 and 3. During intrusive remedial activities, including drilling borings with geoprobe and injection of remedial treatment products in the subsurface of groundwater cleanup, air monitoring for vapors, dust particulates, and odors will be performed during intrusive activities to assure conformance with community air monitoring action levels. The potential for chemical exposure and physical injury are reduced through safe work practices; proper personal protection equipment (PPE); environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The planned remedial activities will be completed within one construction season and performed in accordance with a Department-approved Work Plan, including a HASP and CAMP. These alternatives achieve the RAOs for the Site.

*Community Acceptance* – Community acceptance will be evaluated based on comments received from the public in response to Fact Sheets issued with the Decision Document and Remedial Action Work Plan. If community input supports one alternative over others, that input will be used in the evaluation.

#### *7.7.4 Comparison of Three Alternatives with Respect to Implementability*

*Implementability* – For the No-Action alternative, obviously there is no problem with implementation. For the two groundwater remedies, implementation is quite different. Two common types of in-situ groundwater remediation of chlorinated solvents include Alternative 2 chemical oxidation and Alternatives 3 enhanced bioremediation. Regenesis products are proposed such as PersulfOx® for chemical oxidation or 3-D Microemulsion® with BioDechlor



INOCULUM® Plus for bioremediation. Mid-Hudson Geosciences and Jansen Engineering, PLLC have experience with both of these treatment methods.

Implementation of these two treatments are very different because the chemical and physical characteristics of the individual treatment materials require specific handling for storage and use in the field. All three products require mixing with water followed by injection into the subsurface. A Geoprobe® will be used for either method and the products can be injected directly into the water-bearing zone within the area of the contaminated plume. Complications arise in using PersulfOx® because it is an oxidizing solid (Category 3) with the following health hazards:

Acute toxicity, oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/ eye irritation	Category 2A
Sensitization, respiratory	Category 1
Sensitization, skin	Category 1
Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation

These numerical categories define the severity of the health hazards with category 1 being the most severe. By comparison, the Bio-Dechlor INOCULUM® Plus (chlorinated solvent eating bacteria) has no health hazards and the 3-D Microemulsion® (long term nutrients for bacteria) has the following health hazards:

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

PersulfOx® is caustic and corrosive and known to degrade equipment surfaces. Such characteristics add risk to workers and equipment which would not be associated with the bioremediation alternative. Also PersulfOX is a heavy duty industrial treatment compared to the Bioremediation treatment. Spills of the 3-D Microemulsion are easily cleaned up from surfaces with water to dilute and rinse away the material. The highest chlorinated VOCs at American Cleaners Middletown are in the range of 2500 µg/L which is readily cleaned-up with bioremediation, while PersulfOX is used for concentrations up to 3 orders of magnitude higher.

#### *7.7.5 Comparison of Three Alternatives with Respect to Cost*

Cost – The estimated cost of materials for implementing Alternative 2: In-Situ Groundwater Cleanup by Chemical Oxidation using Regenesis PersulfOx® and Alternative 3: In-Situ Groundwater Cleanup by Bioremediation using Regenesis 3-D Microemulsion® with BioDechlor INOCULUM® Plus is:

Alternative 2: Regenesis PersulfOx®	\$10,000
Alternative 3: 3-D Microemulsion® with BioDechlor INOCULUM® Plus	\$8,000

The annual Operation and Maintenance and field implementation costs would be the same for either remedy, so those costs are not compared here. Alternative 3 is somewhat more cost effective than Alternative 2.

## 7.8 Comparison of Remedial Alternatives

The previous sections describe remedial alternatives and evaluate these alternatives against the screening criteria for the groundwater remediation at American Cleaners Middletown. Table 11 provides a comparison of the alternatives by media to identify remedial measures that will achieve the RAOs for the Site.

Alternative 3 is favored over Alternative 2 for the following reasons.

- The chemical characteristics of Alternative 2 chemical oxidation are more caustic Than Alternative 3 enhanced bioremediation. The chemical oxidation materials have serious deleterious effects associated with Spills, contact with skin, and contact with Field equipment.
- Alternative 3 Enhanced bioremediation is appropriate for the low levels of PCE concentrations found at the Middletown site, whereas Alternative 2 chemical oxidation is mover appropriate for much higher concentrations.
- The cost for Alternative 3 is somewhat lower than for Alternative 2.
- The geoprobe operators and the consultants would prefer to inject the enhanced bioremediation materials, especially in the winter conditions expected for this work.

## 7.9 Recommended Remedial Alternative

Based on the alternatives analysis evaluation, Alternative 3: Commercial Use with In-Situ Groundwater Cleanup by Bioremediation is the recommended final remedial approach for the American Cleaners Middletown Site. This alternative is fully protective of public health and the environment; significantly less disruptive to the community; consistent with current and future land use; and represents a more cost-effective approach than Alternative 2 while fully satisfying the RAOs. The recommended remedial alternative would involve:

- Treating on-site groundwater in-situ as defined in Remedial Action Work Plan.
- Engineering Controls:
  - Continued operation and maintenance of the Sub-Slab Vapor Extraction System inside the building.
- Institutional Controls:
  - Implementing a Site Management Plan including an Environmental Easement, EC/IC Plan, Site Monitoring Plan, O&M Plan, Site use limitations, groundwater use restrictions, and the Remedial Action Work Plan for groundwater remediation.
  - This remedy is fully protective of public health and the environment; is advantageous over other remedies when evaluated against the remedy selection criteria; and fully satisfies the RAOs for the Site. The components and details of the remaining tasks will be more fully described in an RAWP.

The Remedial Action Work Plan has been be submitted as a separate document.

## 8.0 POST-REMEDIAL REQUIREMENTS

After remedial measures for groundwater and sub-slab soil vapor have been implemented, several actions and documents will be required to evaluate cleanup effectiveness and maintain the Site and Operable Units #1 and #2. Those requirements include the activities described below.

### 8.1 Final Engineering Report

Following completion of the remedial measures, a Final Engineering Report (FER) will be submitted to the NYSDEC. The FER will include the following information and documentation, consistent with the NYSDEC regulations contained in 6NYCRR Part 375-1.6(c):

- Background and Site description.
- Summary of the Site remedy that satisfied the RAOs for the Site.
- Certification by a Professional Engineer to satisfy the requirements outlined in 6NYCRR Part 375-1.6(c)(4).
- Description of engineering and institutional controls at the Site.
- Site map showing the areas remediated.
- Documentation of imported materials.
- Documentation of materials disposed off-site.
- Copies of daily inspection reports and, if applicable, problem identification and corrective measure reports.
- Air monitoring data and reports.
- Photo documentation of remedial activities.
- Text describing the remedial activities performed; a description of any deviations from the Work Plan and associated corrective measures taken; and other pertinent information necessary to document that the Site activities were carried out in accordance with this Work Plan.
- Analytical data packages and DUSRs.

### 8.2 Site Management Plan

The Site Management Plan (SMP) for American Cleaners Middletown will be prepared and submitted concurrent with the FER. The purpose of the SMP is to assure that proper procedures are in place to provide for long-term protection of public health and the environment after remedial construction is complete. The SMP is comprised of four main components:

- Engineering and Institutional Control Plan
- Site Monitoring Plan
- Operation and Maintenance Plan
- Inspections, Reporting, and Certifications

### *8.2.1 Engineering and Institutional Control Plan*

An institutional control in the form of an Environmental Easement will be necessary to limit future use of the Site to restricted residential applications and prevent groundwater use for potable purposes or as industrial process water without prior approval from NYSDOH or an authorized county health department. The Engineering and Institutional Control (EC/IC) Plan will include a complete description of all institutional and/or engineering controls employed at the Site, including the mechanisms that will be used to continually implement, maintain, monitor, and enforce such controls. The EC/IC Plan will include:

- A description of all EC/ICs on the Site.
- The basic implementation and intended role of each EC/IC.
- A description of the key components of the ICs set forth in the Environmental Easement.
- A description of the features to be evaluated during each required inspection and periodic review, including the EC/IC certification, reporting, and Site monitoring.
- Any other provisions necessary to identify or establish methods for implementing the EC/ICs required by the Site remedy, as determined by the NYSDEC.

### *8.2.2 Site Monitoring Plan*

The Site Monitoring Plan will describe the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, including:

- Sampling and analysis of all appropriate media (e.g., groundwater and sub-slab soil vapor).
- Assessing compliance with applicable NYSDEC SCGs, particularly ambient groundwater standards and progress toward asymptotic equilibrium for the sub-slab soil vapor.
- Assessing achievement of the remedial performance criteria
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.
- Preparing the necessary reports for the various monitoring activities.

To address these issues adequately, this Site Monitoring Plan will provide information on:

- Sampling locations, protocol, and frequency.
- Information on all designed monitoring systems (e.g., well logs).
- Analytical sampling program requirements.
- Reporting requirements.
- Quality assurance/quality control (QA/QC) requirements.
- Inspection and maintenance requirements for monitoring wells.
- Monitoring well decommissioning procedures.
- Annual inspection and periodic certification.

15-month groundwater monitoring to assess overall reduction in contamination onsite will be conducted for five years. The necessity and frequency thereafter will be discussed with

NYSDEC. Trends in contaminant levels in groundwater in the affected areas will be evaluated to determine if the remedy continues to be effective in achieving remedial goals.

### *8.2.3 Operation and Maintenance Plan*

An Operation & Maintenance (O&M) Plan governing maintenance of the Sub-Slab Vapor Extraction System will:

- Include the O&M activities necessary to allow individuals unfamiliar with the Site to maintain the cover and ASD systems.
- Include an O&M contingency plan.
  - Evaluate Site information periodically to confirm that the remedy continues to be effective for the protection of public health and the environment. If necessary, the O&M Plan will be updated to reflect changes in Site conditions or the manner in which the Sub-Slab Vapor Extraction System is maintained.

### *8.2.4 Inspections, Reporting, and Certifications*

Site-wide inspections will be conducted annually or as otherwise approved by NYSDEC. All applicable inspection forms and other records, including all media sampling data and system maintenance reports, generated for the Site during the reporting period will be provided in electronic format in a Periodic Review Report (PRR). The PRR will be submitted to the NYSDEC annually (or as otherwise approved) beginning 18 months after the Certificate of Completion or equivalent document is issued. The PRR will be prepared in accordance with NYSDEC DER-10 and submitted within 45 days of the end of each certification period. The PRR will include:

- Identification, assessment, and certification of all EC/ICs required by the remedy for the Site.
- Results of the required annual Site inspections and severe condition inspections, if applicable.
- All applicable inspection forms and other records generated for the Site during the reporting period in electronic format.
- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions.
- Data summary tables and graphical representations of contaminants of concern by media (e.g., groundwater), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends.
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format.
- A Site evaluation that includes the following:
  - The compliance of the remedy with the requirements of the Site-specific RAWP, and/or Decision Document.
  - The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications.

- Any new conclusions or observations regarding site contamination based on inspections or data generated by the Site Monitoring Plan for the media being monitored.
- Recommendations regarding any necessary changes to the remedy and/or Site Monitoring Plan.
- The overall performance and effectiveness of the remedy.

The signed EC/IC Certification will be included in the PRR. For each institutional or engineering control identified for the Site, a Professional Engineer licensed to practice in New York State will certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the EC/ICs required by the remedial program was performed under my direction.
- The EC/ICs employed at this Site are unchanged from the date the control was put in place, or last approved by the NYSDEC.
- Nothing has occurred that would impair the ability of the control to protect the public health and environment.
- Nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control.
- Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of this control.
- If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document.
- Use of the Site is compliant with the Environmental Easement.
- The EC systems are effective and performing as designed.
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program and generally accepted engineering practices.
- The information presented in this report is accurate and complete.

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a Corrective Measures Plan will be submitted to the NYSDEC for approval. This Plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Plan until it is approved by the NYSDEC.

## **9.0 RI/AA SUMMARY AND CONCLUSIONS**

Based on the data and analyses presented in the preceding sections, the following two paragraphs summarize the current status of groundwater contamination and the need for in-situ remediation at American Cleaners Middletown Operable Unit #2.

As shown in the fence diagram and north-south cross section as well as water table flow and PCE plume maps, groundwater transport is moving chlorinated solvents from the area of the American Cleaners building downgradient to the north through permeable layers within the tight

overburden till. The end of the plume has been detected at the location of T7 in the January 2010 and July 2012 and at MW34 in June 2017 sampling events. The projection of the potentiometric surface of the groundwater and correlation of the hydrostratigraphic transmissive water-bearing zone indicate that the north-flowing groundwater discharges into the eastward flowing stormwater stream at the base of the hill on the south side of Route 211.

At last groundwater sampling event (June 2017), the center of the PCE plume at MW 26 shows a concentration of 2300 µg/L, which has only decreased by 300 µg/L from the first sampling at 2600 µg/L in January of 2010. The original interpretation that natural degradation was occurring within the plume is clearly not an effective remedy in the total VOC concentration reaching the Class GA GWQSGV of 5 µg/L. For that reason, a more effective in-situ remedy is proposed by injection of treatment fluids directly into the contaminated areas of the plume.

Based on the Alternatives Analysis, cleanup for Commercial Use with In-Situ Bioremediation of Groundwater will achieve the RAOs and is the selected remedy (see Table 11). Components of the selected remedy include:

- Treating on-site groundwater in-situ by injecting Regenesis 3-D Microemulsion® with BioDechlor INOCULUM® Plus into the transmissive water-bearing zone within the contaminant plume..
- .
- Managing impacted water during remedial activities.
- Implementing the Site Management Plan (SMP), which will include:
  - **Engineering Controls (ECs)** consisting of (1) Operable Unit #2: maintenance of asphalt parking area, sidewalks, and areas of vegetation above the exiting groundwater plume and (2) Operable Unit #1: operation and maintenance procedures for the Sub-Slab Soil Vapor Extraction System.
  - **Institutional Controls (IC)** to restrict groundwater use on-site and limit Site uses to Commercial use.
  - **Operation and Maintenance Plan** for Sub-Slab Vapor Extraction System.
  - **Site Monitoring Plan** that includes provisions for a Site-wide inspection program and a plan for sampling at 15-month intervals for assessment of cleanup of groundwater and sub-slab soil vapor.
  - **Environmental Easement** filed with Orange County

## 10.0 REFERENCES

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New York State Department of Health. *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. October 2006.

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Edward F. Bugliosi, George D. Casey, and Denise Ramelot, 1997, *GEOHYDROLOGY AND WATER QUALITY OF THE WALLKILL RIVER VALLEY NEAR MIDDLETOWN, NEW YORK*, U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT 97-241

US Department of Agriculture (1981) *Soil Survey of Orange County, New York* Map 64 and pages 63-64.

National Register of Historic Places: *Listed Properties*, as of July 2015



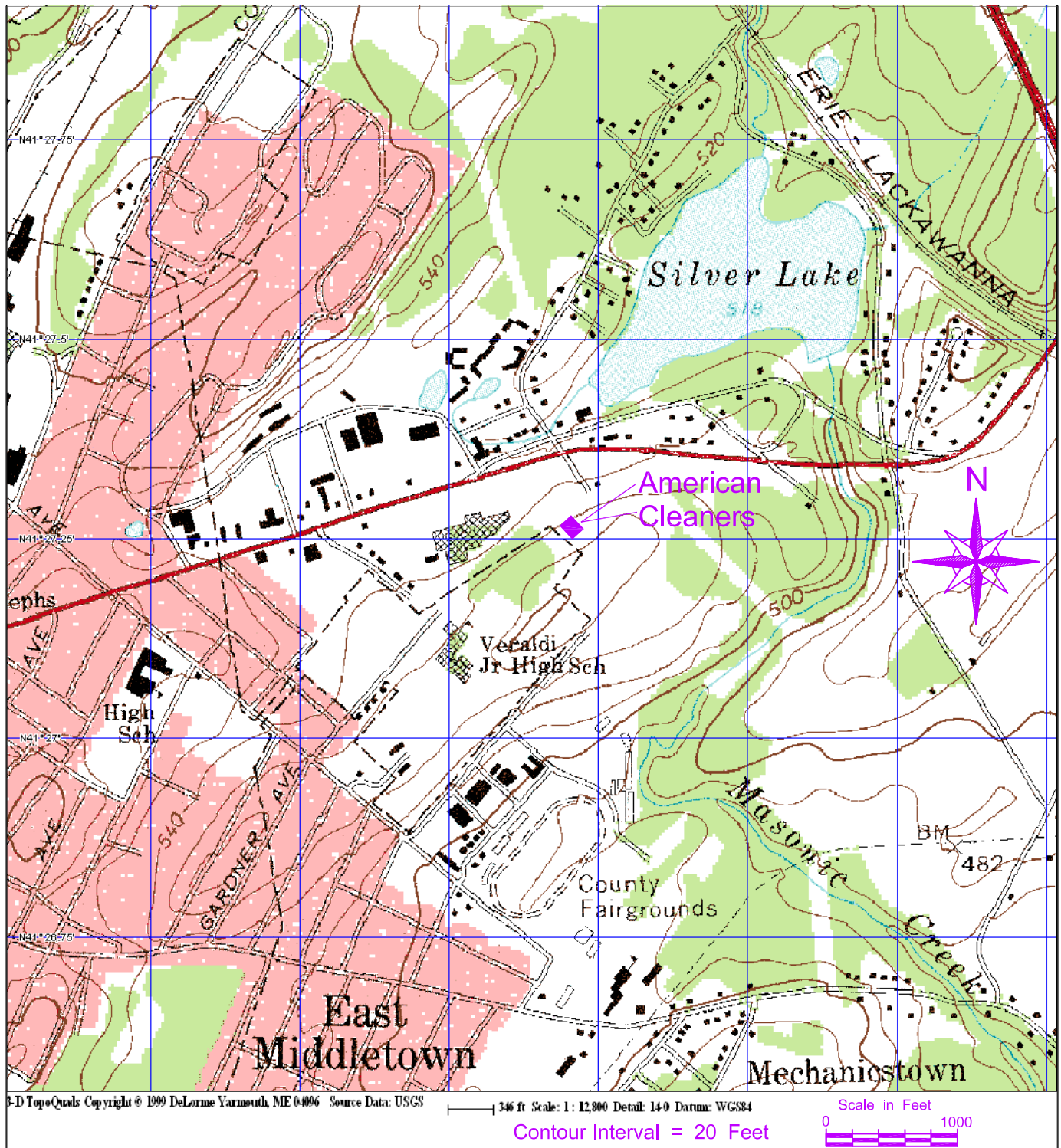
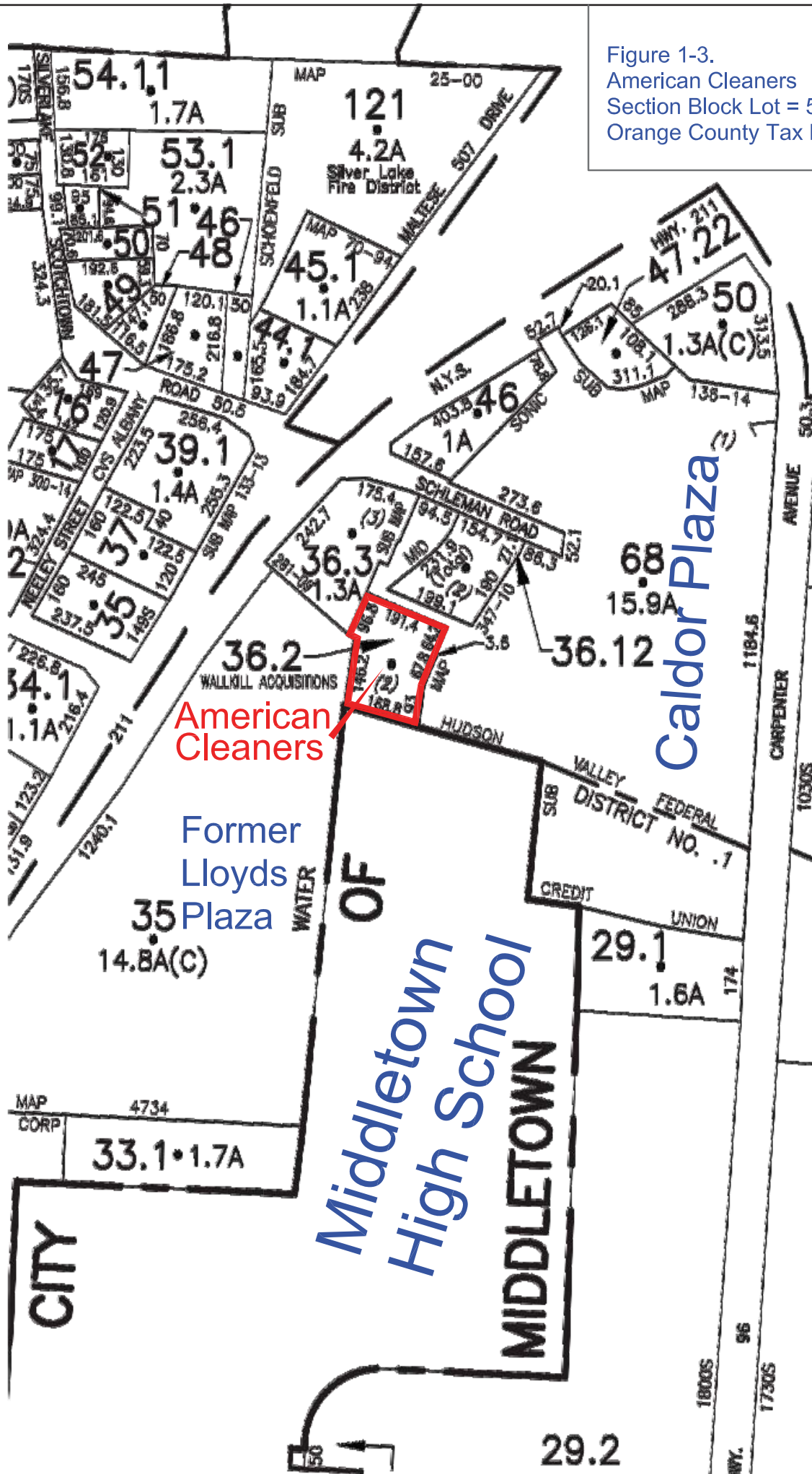


Figure 1-1. Site Location Map  
 USGS 7.5 Minute Quadrangle: Middletown, NY  
 American Cleaners at Caldor Lloyds Mall  
 340 Route 211 East, Middletown, NY 10940  
 NYSDEC DER VCP V-00601-3, February 22, 2010

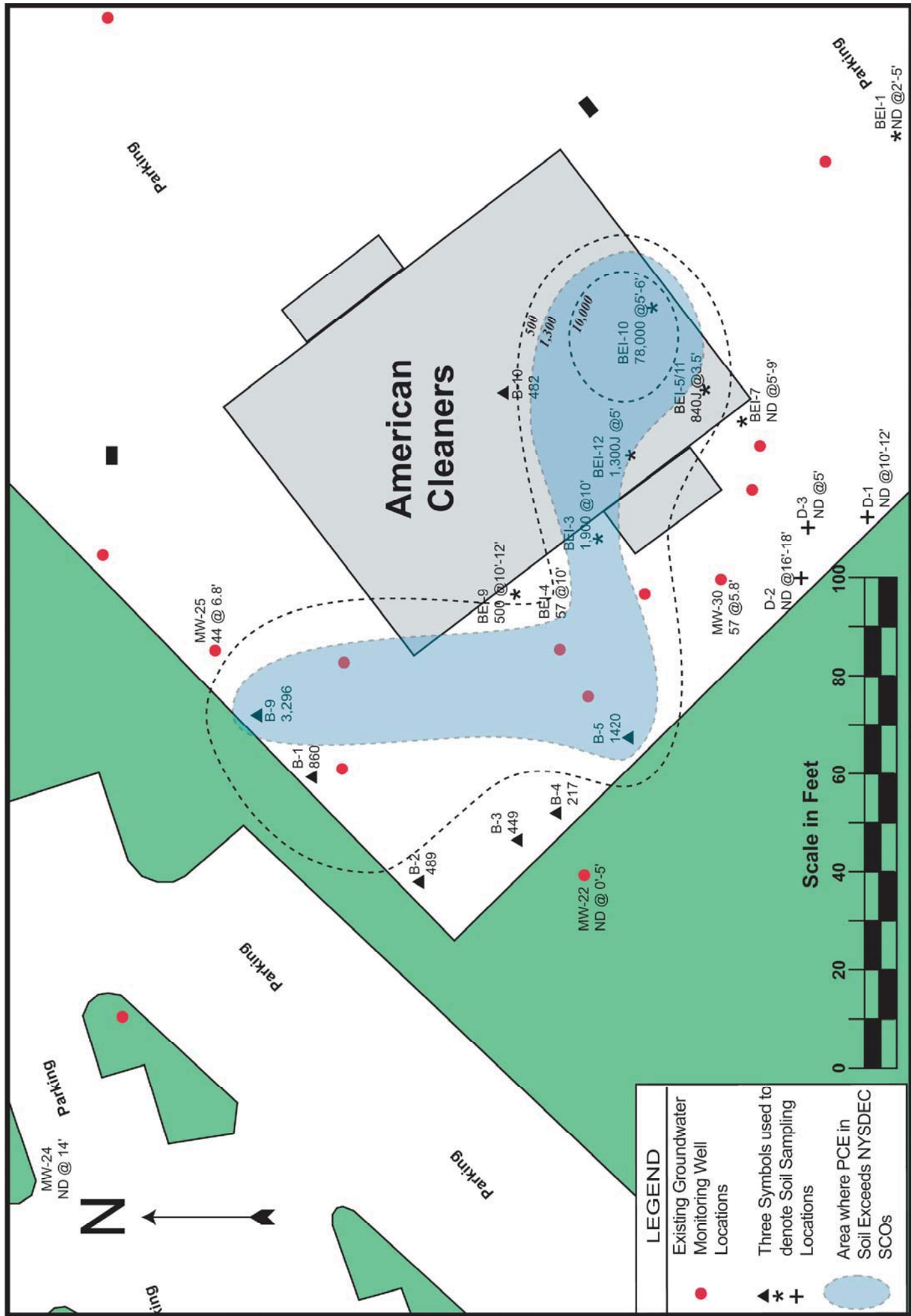
**Mid-Hudson Geosciences**  
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 1003 Route 44/55, PO Box 332  
 Clintondale, NY 12515-0332  
 (845) 883-5866  
 rockdoctor@optonline.net



Figure 1-3.  
American Cleaners  
Section Block Lot = 50-2-36.2  
Orange County Tax Map (2017)







**Figure 1-5.**  
Contour Map of PCE in Soil (ppb)

American Cleaners at Caldor Lloyds Mall  
340 Route 211 East, Middletown, NY 10940  
NYSDEC DER VCP V-00461, Nov 2011





# NOTES:

1. THIS MAP IS SUBJECT TO ANY FINDINGS OF A TITLE SEARCH.
2. SUBSURFACE STRUCTURES AND UTILITIES NOT VISIBLE AT THE TIME OF SURVEY HAVE NOT BEEN SHOWN.
3. VERTICAL DATA/ELEVATIONS SHOWN ARE BASED ON NAVD83 DATUM.
4. HORIZONTAL DATA/COORDINATES SHOWN ARE BASED ON THE NEW YORK EAST COORDINATE SYSTEM AND REPRESENT THE APPROXIMATE CENTER POINT OF EACH WELL OR STRUCTURE AS FIELD LOCATED ON AUGUST 22, 2017.

## Figure 3. Lanc & Tully Survey of Selected Monitoring Wells August 2017

GRAPHIC SCALE



( IN FEET )  
1 inch = 30 ft.

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**LANC & TULLY**  
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P.O. Box 487, Rt. 307  
Goshen, N.Y. 10924  
(845) 894-0700

Date: AUGUST 22, 2017

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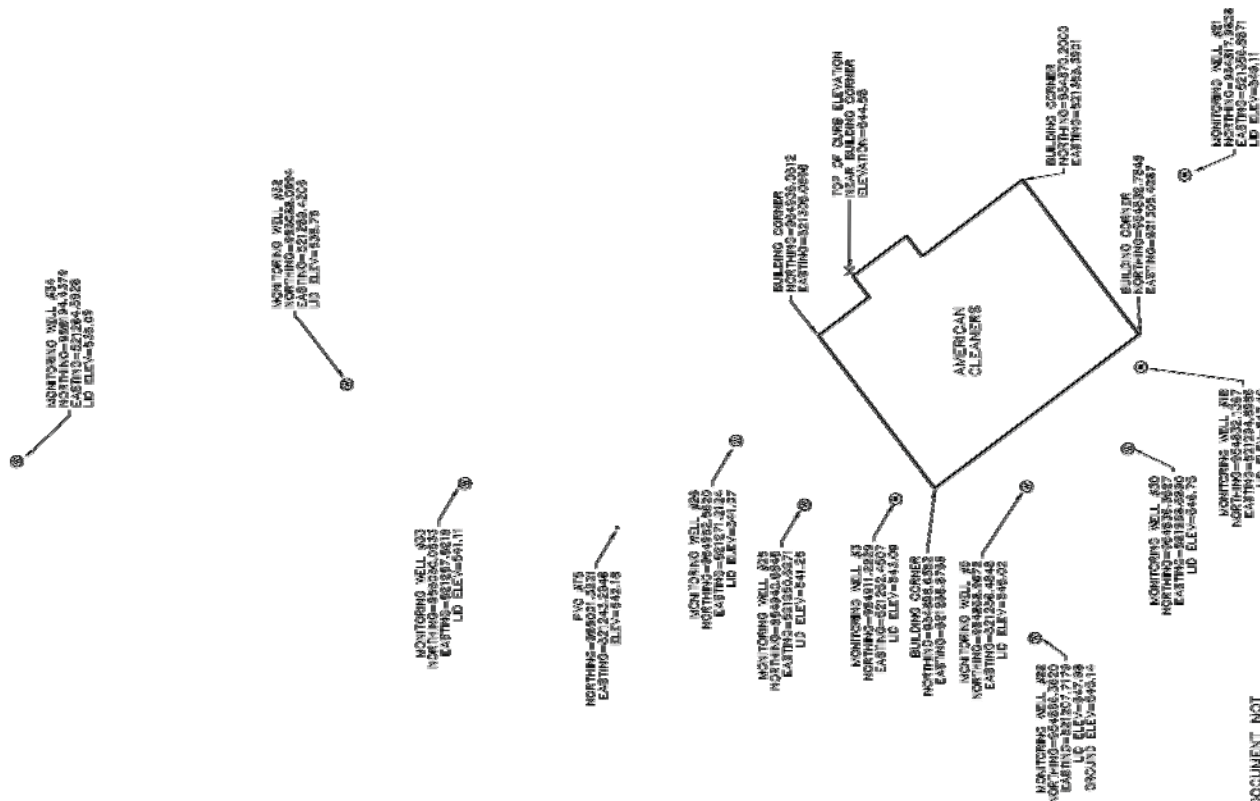
**AMERICAN CLEANERS**

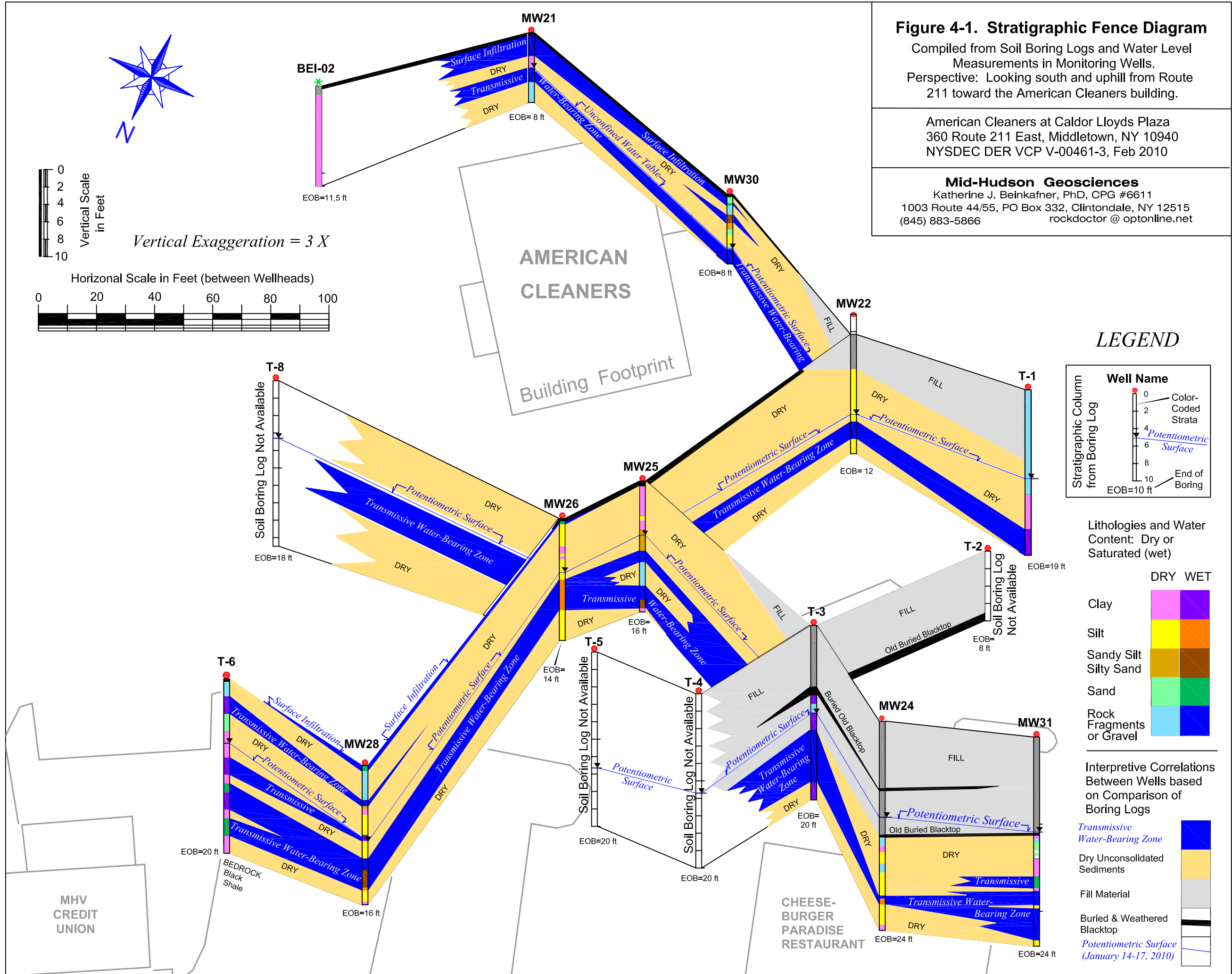
TOWN OF WALLKILL  
ORANGE COUNTY, NEW YORK

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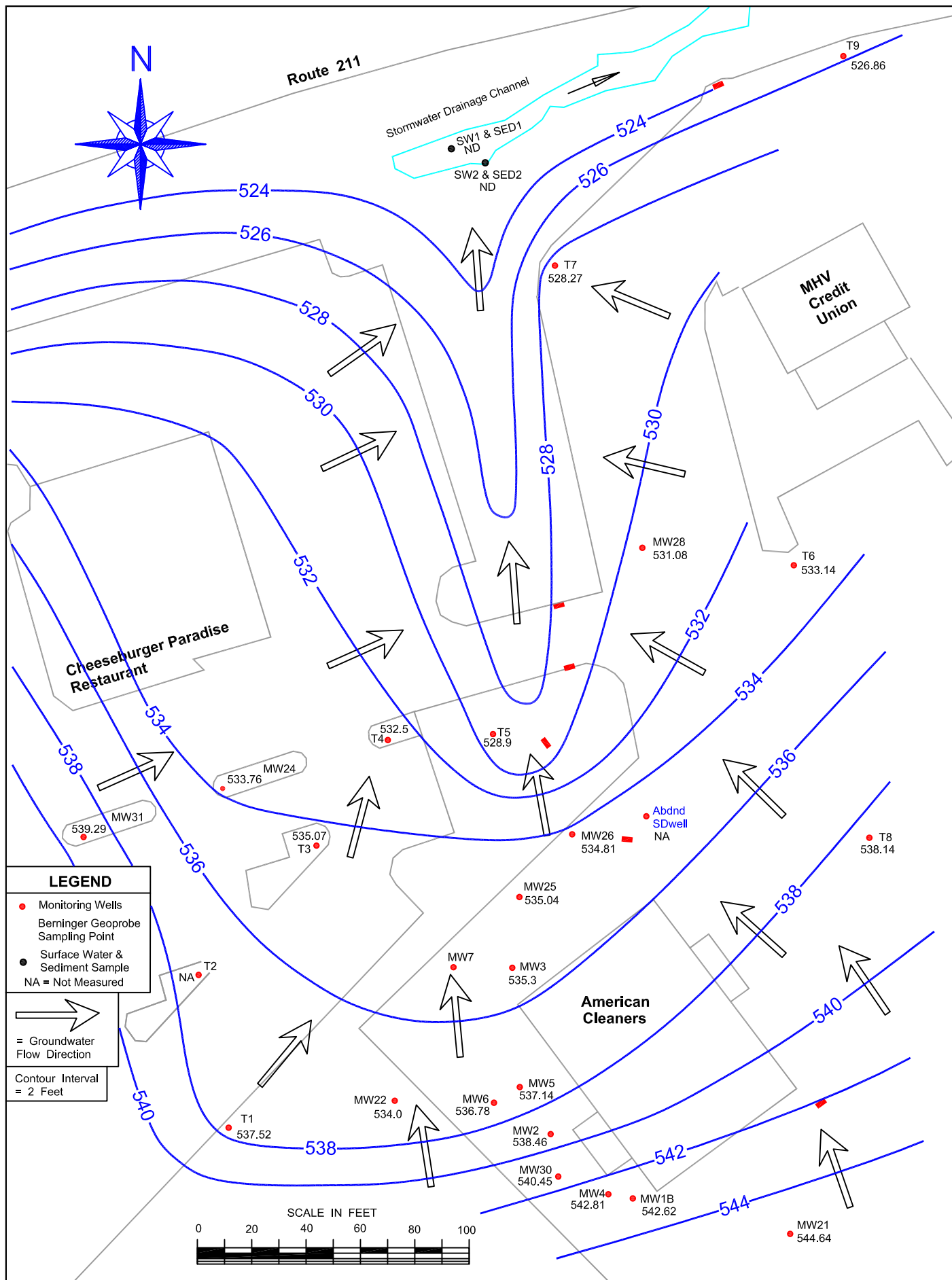
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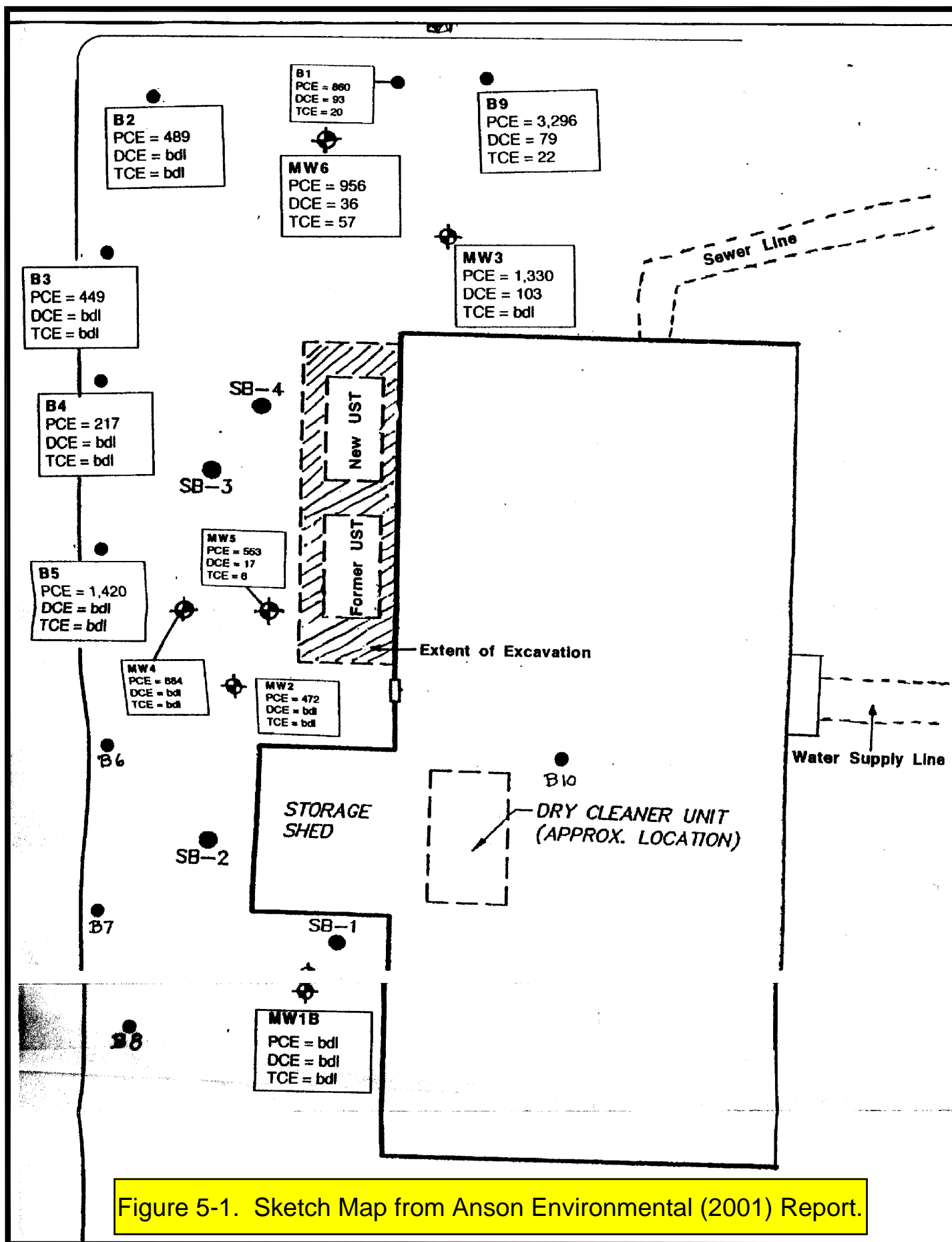




**Figure 4-5. Contour Map of Groundwater Elevations for January 14-17, 2010, Measurements taken during Mid-Hudson Geosciences Sampling Event. Elevations in Feet relative to mean sea level.**

**American Cleaners at Caldor Lloyds Mall**  
**340 Route 211 East, Middletown, NY 10940**  
**NYSDEC DER VCP V-00461-3, Feb 2010**

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American Cleaners, Caldor Lloyds Mall, Middletown, NY

Cheeseburger Paradise	Indoor	Outdoor	Sub-slab
Dichlorodifluoromethane	0.485	0.481	ND
Chloromethane	0.557	0.516	ND
Methylene chloride	ND	1.18	ND
Trichlorofluoromethane	0.222	0.229	ND
n-Hexane	ND	0.244	ND
Chloroform	ND	ND	2.73
Benzene	0.247	0.275	ND
Tetrachloroethene	ND	0.332	ND
Toluene	0.409	0.424	43.9
Ethylbenzene	ND	ND	5.79
Xylenes (m&p)	ND	ND	24.8
Xylenes (o)	ND	ND	8.14
1,3,5-Trimethylbenzene	ND	ND	2.04
1,2,4-Trimethylbenzene	ND	ND	6.17
Heptane	ND	ND	7.22

**Cheeseburger  
Paradise Restaurant**

**Route 211**

**MHV  
Credit  
Union**

**Friendly's  
Ice Cream**

MHV Credit Union	Indoor	Outdoor	Sub-slab
Dichlorodifluoromethane	0.78	0.81	3.39
Chloromethane	0.61	0.67	0.22
Methylene chloride	0.54	0.38	0.62
Trichlorofluoromethane	0.27	0.28	0.27
n-Hexane	0.26	ND	13.1
Cyclohexane	ND	ND	1.64
2,2,4-Trimethylpentane	ND	ND	1.97
Trichloroethene	ND	ND	1.30
Benzene	0.26	ND	0.45
n-Heptane	0.30	ND	1.26
Tetrachloroethene	0.49	0.37	1.50
Toluene	0.43	0.28	1.99
Ethylbenzene	ND	ND	0.47
Xylenes (m&p)	ND	ND	2.38
Xylenes (o)	ND	ND	1.03
1,2,4-Trimethylbenzene	ND	ND	1.03

**American  
Cleaners**

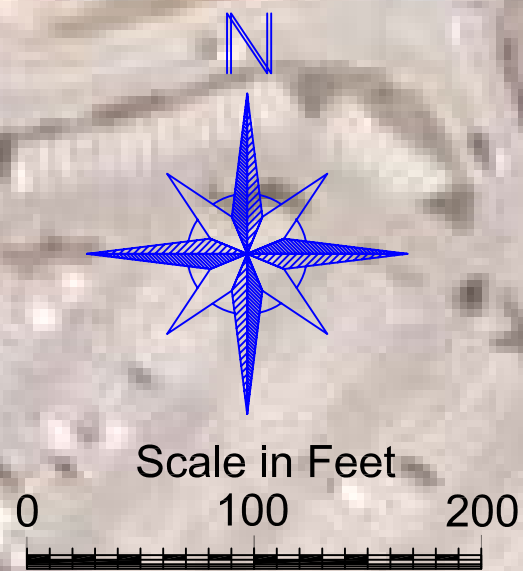
**Vacant  
Video  
Store**

Video Store (Vacant)	Indoor	Outdoor	Sub-slab
Dichlorodifluoromethane	0.509	0.5	0.547
Chloromethane	0.919	0.533	ND
Trichlorofluoromethane	0.222	0.264	0.457
Cyclohexane	ND	ND	1.45
2,2,4-Trimethylpentane	ND	ND	0.839
Benzene	0.244	0.257	1.6
n-Heptane	ND	ND	2.28
Toluene	0.392	0.371	41.8
Ethylbenzene	ND	ND	8.5
Styrene	ND	ND	20.1
Xylenes (m&p)	ND	ND	31.9
Xylenes (o)	ND	ND	11
4-Ethyltoluene	ND	ND	2.79
1,3,5-Trimethylbenzene	ND	ND	3.44
1,2,4-Trimethylbenzene	ND	ND	10
Heptane	ND	ND	6.38

Figure 5-7. Map of Concentrations (in ppbv) of Volatile Organic Compounds Detected in Air Samples (Subslab, Indoor, Outdoor) at neighboring buildings in January and March 2009.

American Cleaners at Caldor Lloyds Mall  
360 Route 211 East, Middletown, NY 10940  
NYSDEC DER VCP V-00461-3, February 2010

**Mid-Hudson Geosciences**  
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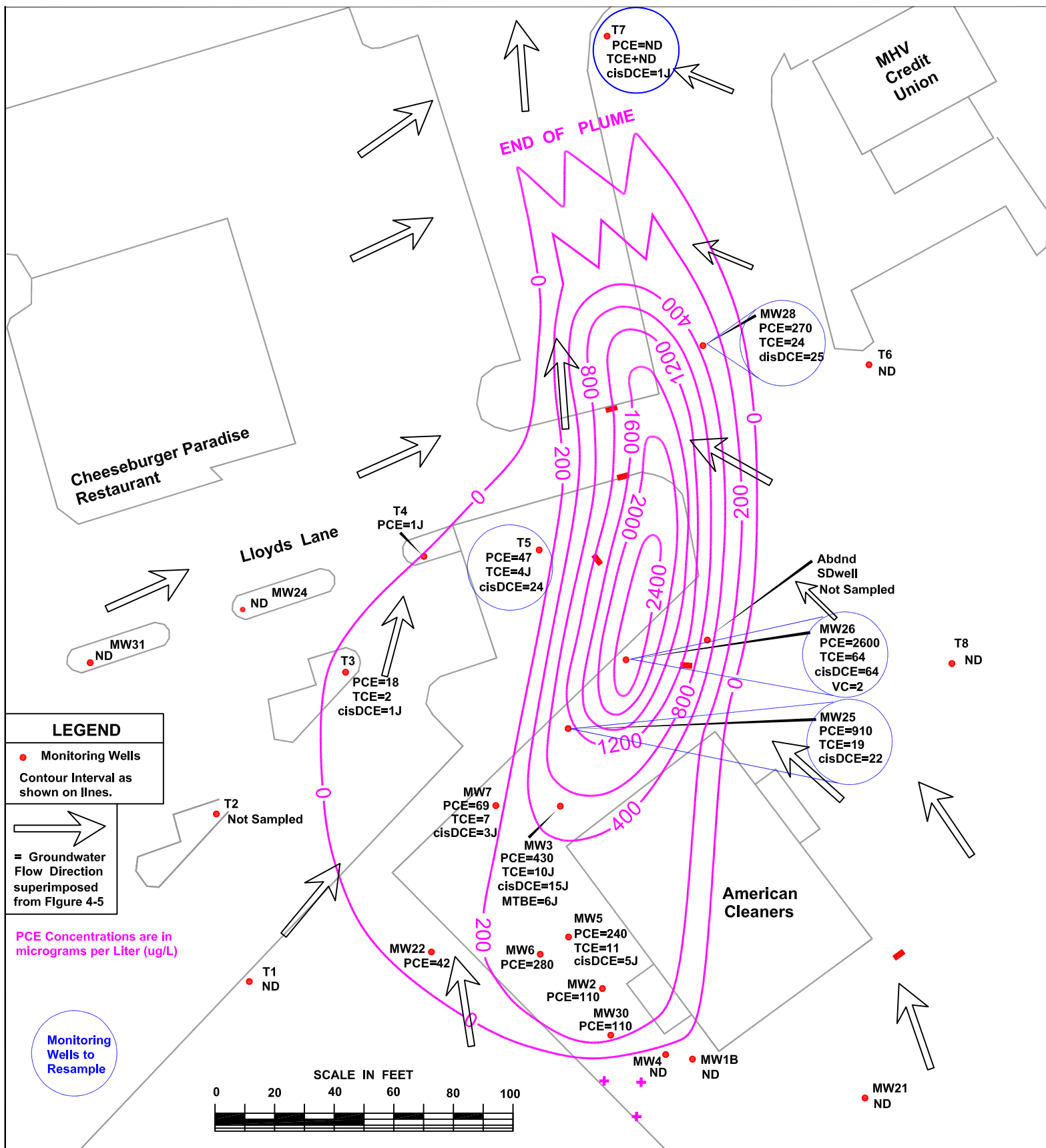
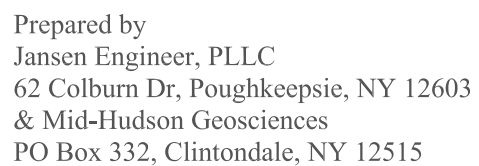


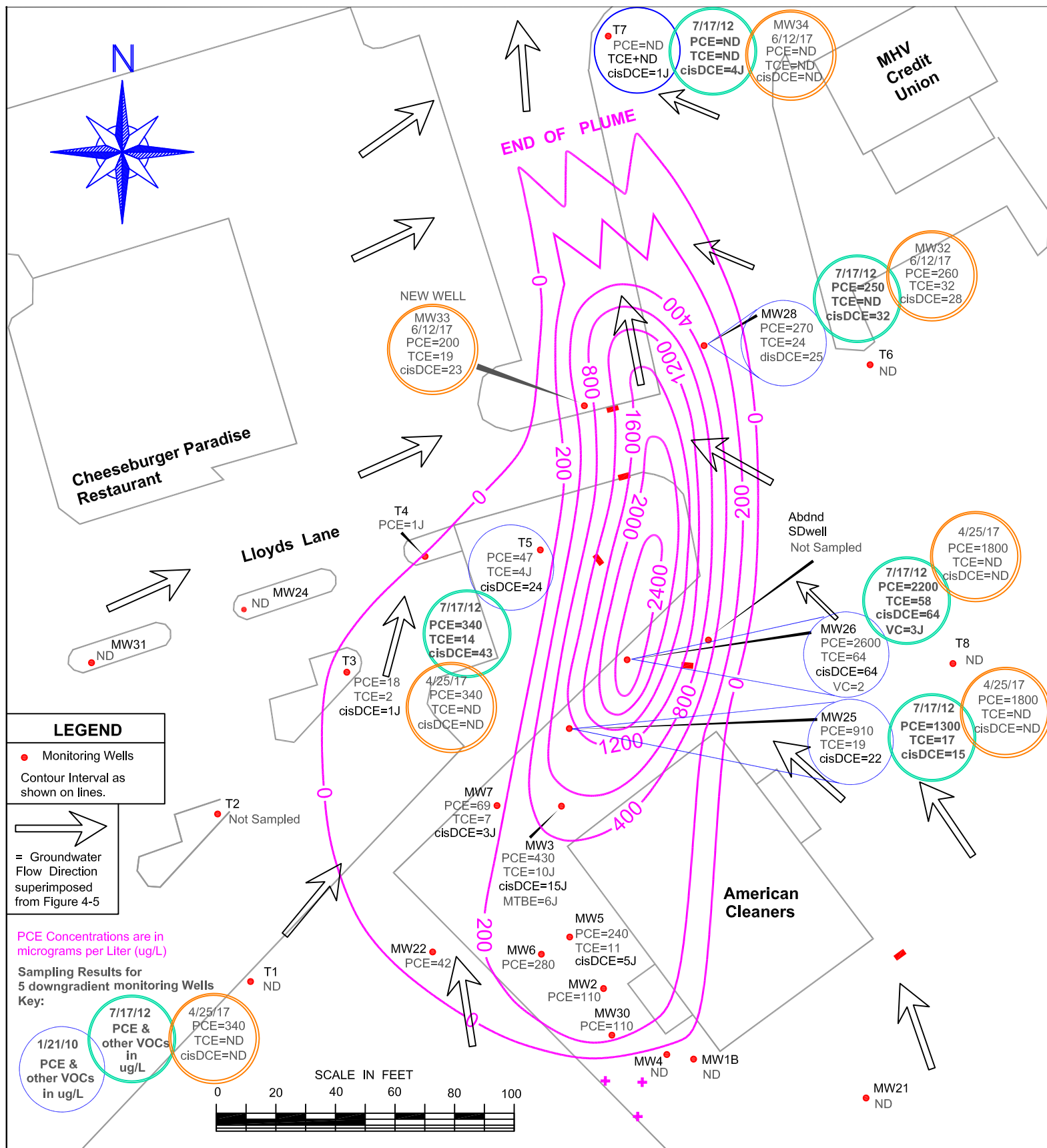
Figure 5-9. Proposed Downgradient Groundwater Sampling Locations for 5 monitoring wells for contaminant re-evaluation. Jansen Engineering, PLLC July 2012

American Cleaners at Caldor Lloyds Mall  
340 Route 211 East, Middletown, NY 10940  
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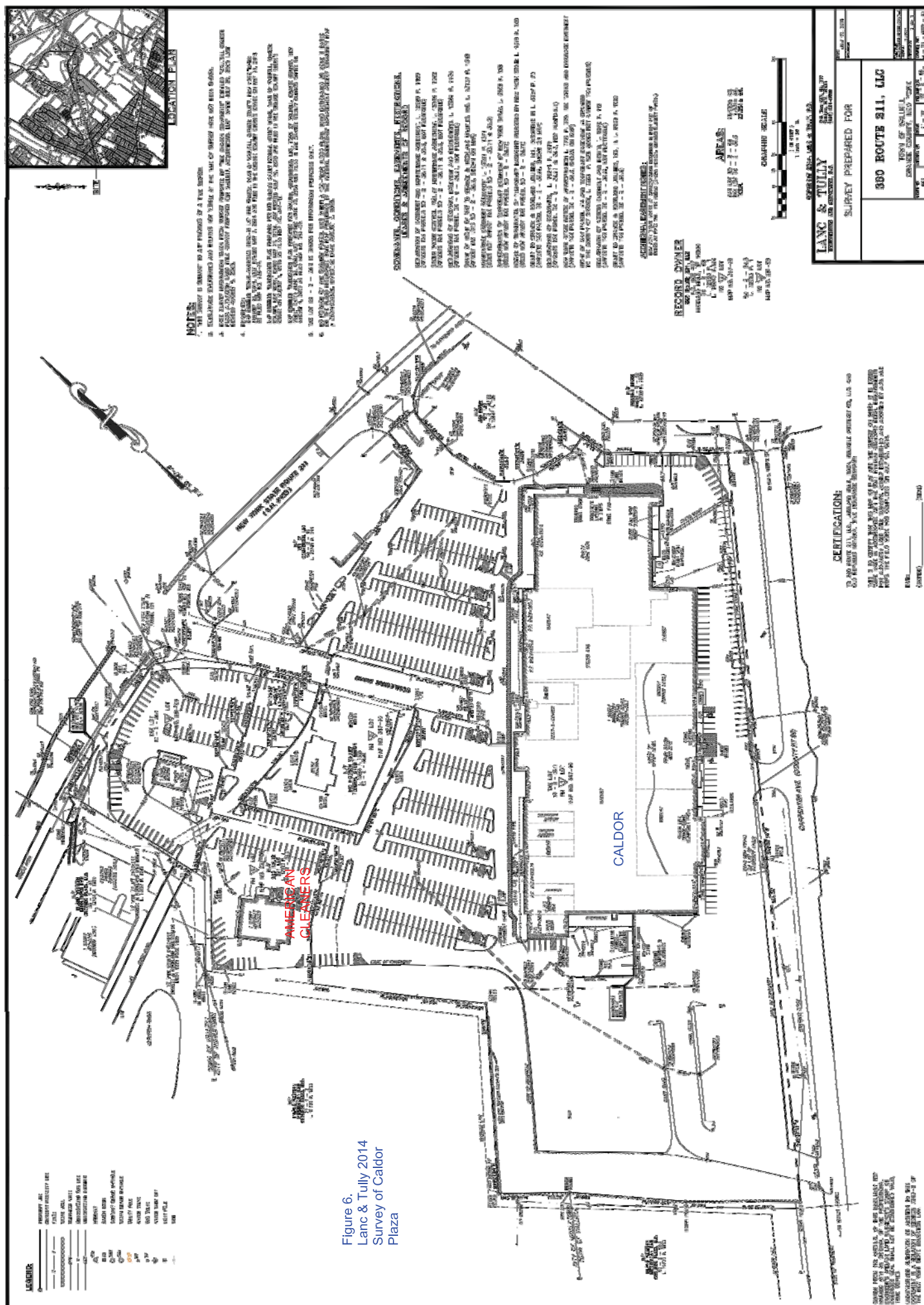




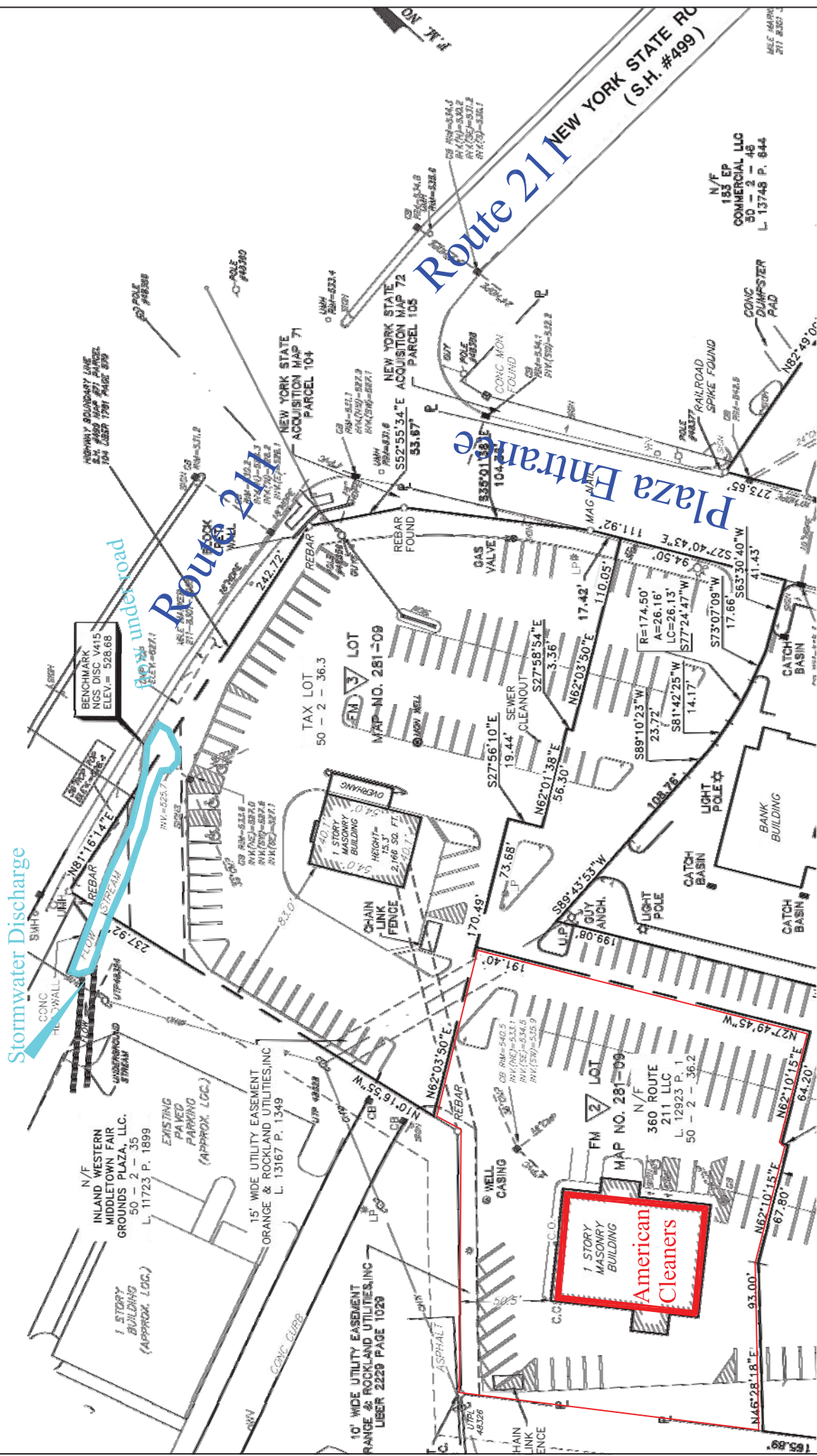
**Figure 5-18. PCE Plume in January 2010 showing 2010, 2012, and 2017 VOC concentrations for 5 down-gradient monitoring wells, shown in circles, plus replacement wells for those paved over and new MW33.**

**American Cleaners at Caldor Lloyds Mall**  
**340 Route 211 East, Middletown, NY 10940**  
**NYSDEC DER VCP V-00461-3, Feb 2010**

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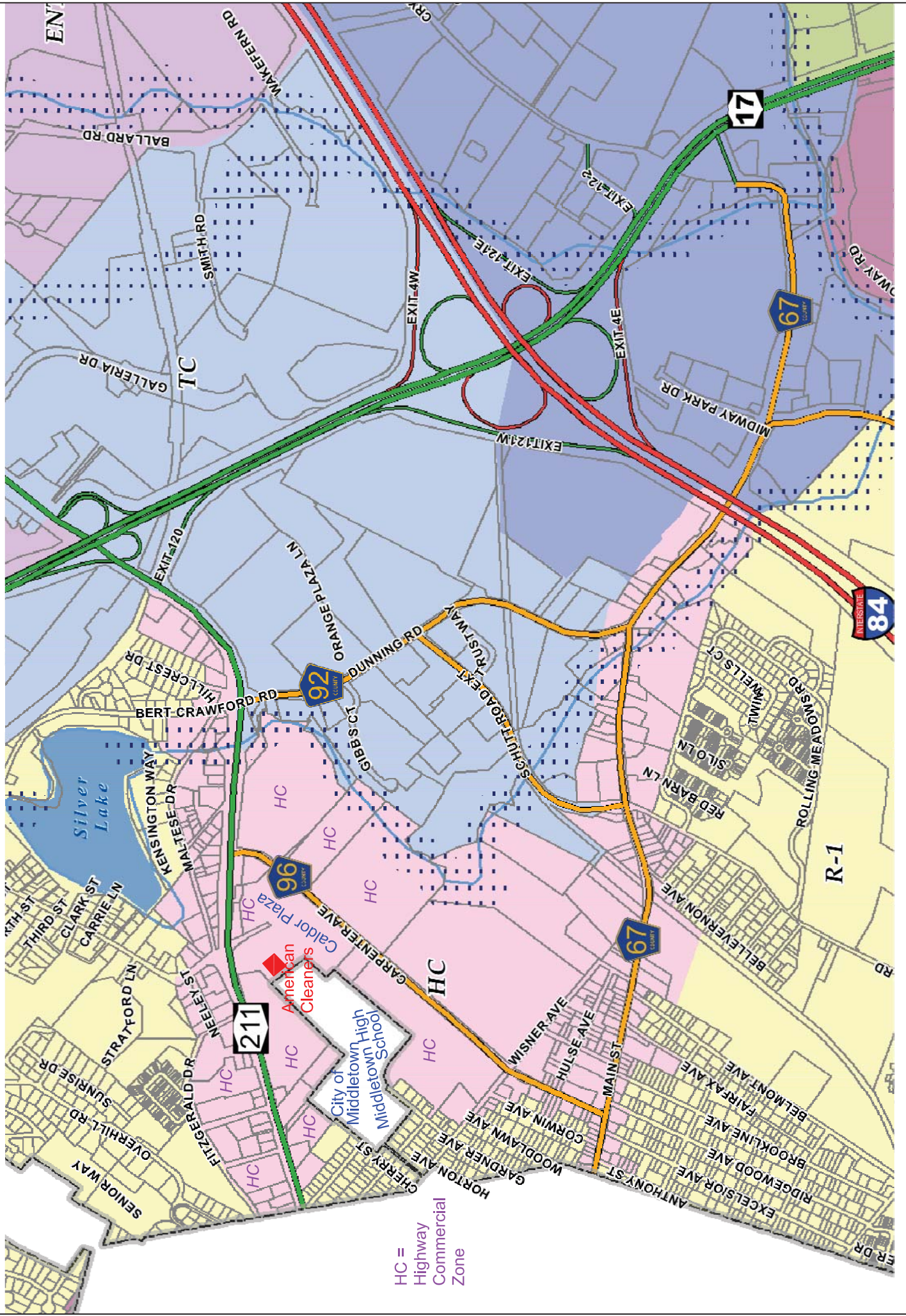


Figure 8. Portion of the Town of Wallkill Zoning Map (Dec 2009) , "HC" Zoning at Caldor & American Cleaners.

**Table 1A**

Listing of All Laboratory Reporting for American Cleaners Middletown, NY  
Caldor Lloyds Mall, 360 Route 211 East, Middletown, NY 10940  
NYSDEC Voluntary Cleanup Program V-00461

Under direction of Jansen Engineering, PLLC and Mid-Hudson Geosciences (2010 to 2012)  
All analyses were for Volatile Organic Compounds: Soil and Water US EPA Method SW846-8260B  
Soil Vapor EPA Compendium TO14A/TO15  
Appendix Number is that for this Report, Provided on CD in both PDF and EDD. ASP-B is not included.  
York = York Analytical Laboratories, Inc. 120 Research Drive, Stratford, CT 06615  
Alpha = Alpha Analytical, 320 Forbes Boulevard, Mansfield, MA 02048-1806

Appendix Number	Program	Matrix	Location	Number of Samples/ Blanks	Date of Sampling	Laboratory	Report Identification	Final Report Date	ASP-B Report Date	Report & Table Proposed	Lab Result Table	Lab Results Map	This Report Table of Results	Map of Results
C	<u><b>Investigations</b></u>													
	Prelim SV Pilot Test	Soil	parking lot	11/2	05/16/12	York	12E0631	05/24/12	06/11/12	N/A	Rpt1:1	R1:Fig1	13	5-15
C	Re-Evaluation													
		Soil	parking lot	14/2	07/25/12	York	12G0902	08/06/12	01/16/13	Rpt1:2,3	Rpt3:4	Here	14	5-15
		Soil	sub-slab	2/2	09/27/12	York	12J0066	10/09/12	01/23/13	Rpt1:2,3	Rpt3:5	Here	15	5-10
		Soil Vapor	parking lot	2	08/14/12 *	Alpha	L1214558	08/27/12		Rpt1:2,3	Here	Here	16	5-17
		Groundwater	downgradient	7/2	07/11/12	York	12G0446	07/27/12		Rpt1:2,3	Here	Here	17	5-18
C	RIR	Groundwater	all mon wells	25/2	01/15/10	York	10010484	01/25/10		letter	RIR:4	RIR:Fig5-5	4	5-5
C	<u><b>Remedial Actions</b></u>													
	Remedy - VES	Soil Vapor	Building	1	08/14/12 *	Alpha	L1214558	08/27/12		Rpt1:2,3	Rpt2:p1	Rpt2:Fig1	18	5-17
			VES	1/2	09/27/12	York	12J0066	10/09/12	01/23/13	Rpt2:2	Here	Here	19	5-19g
			VES	1	10/07/12	York	12J0332	10/17/12	11/22/12	Rpt2:2	Here	Here	19	5-19g
			VES	1	11/29/12	York	12L0054	12/10/12		Rpt2:2	Here	Here	19	5-19g
C	Remedy -Backdoor	Soil -back door in parking lot		14/2	07/25/12	York	12G0902	08/06/12	01/16/13	Rpt1:2,3	Rpt3:4	Rpt2:Fig2	13,14	21
		Soil - waste classification		2	10/11/12	York	12J0483	10/16/12		N/A	Rpt3:6	Here	21	21
		Soil - excavation confirmation		7/2	11/29/12	York	12L0069	12/12/12		Rpt3:7	Here	Here	22	22

Notes: \* Same lab report represents two different sample locations and categories in this report  
Rpt1 = Remedial Investigation Work Plan: Re-Evaluation of On-Site Contaminants, June 2012, Prepared by Jansen Engineering, PLLC and Mid-Hudson Geosciences  
Rpt2 = Modification to February 7, 2012 Remedial Action Work Plan RE: Pilot Test, Design and VES Installation, September 2012, Prepared by Jansen Engineering. PLLC and Mid-Hudson Geosciences  
Rpt3 = Modification 2 for February 2012 Remedial Action Work Plan RE: Backdoor Site Excavation, October 29, 2012, prepared by Jansen Engineering, PLLC and Mid-Hudson Geosciences  
RIR = Remedial Investigation Report for American Cleaners Middletown, Caldor Lloyds Mall, 360 Route 211 East, April 10, 2010, prepared by Mid-Hudson Geosciences  
5-19g means figure 5-19 is a graph Here means this report

Table 1B  
List of Samples for Data Validation  
American Cleaners, Middletown, NY  
Year: 2017  
All Lab Reports are from York Analytical Laboratories

Date of Sampling	Report ID	Report Date	Type of Sampling	No Samples	No Blanks	No MS/D	Method	ASP_B
4/13/17	17D0518	4/25/2017	ACM GW part 1	3 wells, 1 dup	TB, EB	0	8260C	yes
6/6/17	17F0052	6/12/2017	ACM GW part 2	3 wells, 1 dup	TB, EB	0	8260C	yes
4/12/17	17D0577	4/21/17	Sub Slab Vapor Ex	1 point	0	0	TO-15	yes
6/20/17	17F0808	6/28/17	Sub Slab VES	4 points	0	9	TO-15	yes

Table 2  
Summary of Monitoring Well Dimensions  
All wells are PVC construction.  
Remedial Investigation Report, February 2010  
Updated November 2017  
American Cleaners, Inc. Caldor Lloyds Mall, 340 Route 211 East, Middletown, NY 10940  
NYSDEC DER VCP Site V-00461-3  
Summarized by Mid-Hudson Geosciences

Well Identification	Demise	Date of Construction	Diameter (inches)	Total Depth (Feet)	Screen Interval (Feet)
MW1B		2000	2	7.6	2.6-7.6
MW4		2001	4	16?	6-16?
MW2		2000	2	8.4	3.4-8.4
MW5		2001	4	16.4	6.4-16.4
MW6		2001	4	16.8	6.8-16.8
MW7		2001	4	16.4	6.4-16.4
MW3		2000	2	10.2	5.2-10.2
T1		2005	1	9.7	5-10
T2 *		2005	1	19	9-19
T3		2005	1	20	10-20
T4		2005	1	20	10-20
T5		2005	1	20	10-20
T6	Paved Over	2005	1	19	9-19
T7	Paved Over	2005	1	18	8-18
T8	Paved Over	2005	1	18	8-18
T9	Paved Over	2005	1	20	10-10
StormWater **		2005?	2	12	7-12
MW21		2009	1	5.6	3.6-5.6
MW22		2009	1	16 from TOC	11-16 from TOC
MW24		2009	1	24	14-24
MW25		2009	1	15.5	5.5-15.5
MW26		2009	1	14	4-14
MW28	Paved Over	2009	1	14.5	9.5-14.5
MW31		2009	1	24	14-24
MW30		2009	1	8.6	3.6-8.6
MW32	replaced MW28	2017	1	13.88	9-14
MW33		2017	1	19.43	9.5-19.5
MW34	replaced T7	2017	1	18.6	15-19

Notes:

\* Well T-2 is shallow and in hydraulic connection with surface, so it is not monitored.

\*\* Storm Drain Well has been damaged at the surface, the driveover box is broken and open.  
Storm Drain Well is not monitored.

Table 3A  
Summary of Water Level Measurements  
In Monitoring Wells on January 16 and 27, 2010  
TOC = Elevation of Top of Casing  
All measurements are in Feet.  
Elevations are relative to mean sea level  
NA and #VALUE! = no measurement taken.  
American Cleaners, Middletown, NY  
NYSDEC DER VCP V-00461-3  
RIR, February 2010

		<b>January 16, 2010</b>		<b>January 27, 2010</b>	
	TOC Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation
MW1B	547.45	4.83	542.62		
MW2	545.97	7.51	538.46		
MW3	542.75	7.45	535.3	3.93	538.82
MW4	547.31	4.5	542.81	3.9	543.41
MW5	545.16	8.02	537.14		
MW6	545	8.22	536.78	3.6	541.4
MW7	542.35	NA	#VALUE!		
SDWell	540.61	NA	#VALUE!		
T1	547.73	10.21	537.52		
T2	546.34	NA	#VALUE!		
T3	545.18	10.11	535.07	9.13	536.05
T4	543.87	11.37	532.5	10.04	533.83
T5	542.18	13.28	528.9	13.32	528.86
T6	540.53	7.38	533.15		
T7	535.94	7.67	528.27	6.42	529.52
T8	544.72	6.58	538.14	4.45	540.27
T9	534.98	8.12	526.86		
MW21	549.22	4.58	544.64	0.4	548.82
MW22	545.47	11.47	534	7.24	534.32
MW24	544.85	11.09	533.76	11.15	533.7
MW25	541.27	6.23	535.04		
MW26	541.05	6.24	534.81	3.3	537.75
MW28	539.83	8.75	531.08	7.4	532.43
MW30	546.67	6.24	540.43		
MW31	544.19	10.9	533.29		

Table 3B  
 Northing, Easting, and Elevation for Selected Wells  
 American Cleaners Middletown, NY  
 Survey by Lanc & Tully (August 2017)

Middletown June 20, 2017 Water Levels  
 Water Levels measured by Mid-Hudson Geosciences  
 NA = depth to water not measured, no key for padlock

Well	Northing	Easting	Top Elev	Water Depth	Water Elev
MW21	954817.9838	521356.8871	549.11	1.65	547.46
MW1B	954832.1367	521294.8986	547.4	4.51	542.89
MW30	954836.3527	521268.689	546.75	5.87	540.88
MW22	954866.362	521207.7179	547.98	NA	#VALUE!
MW5	954868.9672	521256.4848	545.02	5.19	539.83
MW3	954911.2229	521252.4507	543.09	5.91	537.18
MW25	954940.5845	521250.8271	541.25	3.87	537.38
MW26	954962.562	521271.2141	541.07	3.89	537.18
T5	955001.3221	521243.2946	542.18	11.54	530.64
MW33	955050.0633	521257.5219	541.11	10.31	530.8
MW32	955088.0694	521289.4206	538.76	7.76	531
MW34	955194.4379	521264.5928	536.09	10.35	525.74

**Table 4**

(RIR 4/10 Table 4)

Summary of PCE (Tetrachloroethylene) and Other Volatile Organic Compounds (VOCs)

Detected in Groundwater, Surface Water and Sediments using EPA Method 8260

No entry in data matrix indicates analyte Not Detected (ND).

Units of Measurement are ug/L for water and ug/kg for sediments.

Remedial Investigation Report, April 2010, Sampling Dates: January 14-17, 2010

American Cleaners, Inc. Caldor Lloyds Mall, 340 Route 211 East, Middletown, NY 10940

NYSDEC DER VCP Site V-00461-3

From York Analytical Laboratories Report #10010484, dated January 25, 2010

Complete Laboratory Reports are contained in Appendix D of this Report

Prepared by Mid-Hudson Geosciences and Jansen Engineering, PLLC

Well Identification	PCE	TCE	cisDCE	vinyl chloride	methylene chloride	napthalene	MTBE
MW1B					3JB	2JB	
MW4					3JB		
MW2	110				3JB		
MW5	240	11	5J		5JB		
MW6	280				13JB		
MW7	69	7	3J		3JB		
MW3	430	10J	15J		13JB		6J
T1					3JB		
T2	Not Sampled						
T3	18	2J	1J		3JB		
T4	1J				6JB		
T5	47	4J	24		3JB	2JB	
T6					3JB		
T7			1J		4JB		
T8					4JB		
T9					3JB		
MW21					2JB		
MW22	42				4JB		
MW24					4JB		
MW24dup					3JB		
MW25	910	19	22		4JB	4JB	
MW26	2600	64	64	2	4JB		
MW28	270	24	25		3JB		
MW31					4JB		
MW30	110						

## Storm Water Samples from Drainage Channel south of Route 211

SW1	3JB
SW2	3JB

## Sediment Samples from Drainage Channel south of Route 211

SED1	12JB
SED2	10JB

## Blanks

Trip Blank	3J
EquipBlank	3J

Notes: "J" indicates estimated concentration, less than Reporting Limit, greater than Method Detection Limit.  
 "B" indicates analyte detected in blank.



**TABLE 7 - SUMMARY OF VOLATILE ORGANIC COMPOUNDS DETECTED AND/OR  
ELEVATED ABOVE NYSDEC CLASS GA AMBIENT WATER QUALITY STANDARDS**

American Cleaners, Middletown, New York									
SDG BER005									
Berninger Sample ID:	BEI-GW-01(10ft)	BEI-GW-02(10ft)	BEI-GW-04(12-14ft)	BEI-GW-05(4-6ft)	BEI-GW-06(6-8ft)	BEI-GW-07(6-8ft)	NYSDEC CLASS GA		
Laboratory ID:	0307609-001	0307609-002	0307609-003	0307609-004	0307609-005	0307609-006	AMBIENT WATER		
Sampling Date:	07/16/03	07/16/03	07/17/03	07/17/03	07/17/03	07/17/03	QUALITY STANDARDS		
% Moisture	NA	NA	NA	NA	NA	NA	GUIDANCE VALUES		
units: ug/L							units: ug/L		
Analyte									
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2
Chloroethane	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	50
Methylene Chloride	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	5
Acetone	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	50
Carbon Disulfide	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50
1,1-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
1,1-Dichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
1,2-Dichloroethene (total)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	7
1,2-Dichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Bromodichloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50
1,2-Dichloropropane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Benzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.7
Dibromochloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Bromoform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50
Tetrachloroethene	1,000	380	370 J	24	2600 J	5800 J	10 U	10 U	5
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Toluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Ethylbenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Xylene (total)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
TVOCs	1,000	380	370 J	50 J	2721 J	6200 J	10 U	10 U	
TICs	ND	ND	ND	ND	ND	ND	ND	ND	NA = Not Applicable

TVOCs=Total Volatile Compounds  
J=Estimated Concentration  
U=Not detected above  
Bold=Exceeds regulatory comparative basis



**TABLE 7 (cont'd) - SUMMARY OF VOLATILE ORGANIC COMPOUNDS DETECTED AND/OR  
ELEVATED ABOVE NYSDEC CLASS GA AMBIENT WATER QUALITY STANDARDS**

American Cleaners, Middletown, New York									
SDG BER005									
Berninger Sample ID:		MW-6		MW-7		FIELD BLANK		TRIP BLANK 7/15	
Laboratory ID:		0307609-013		0307609-014		0307609-015		0307609-016	
Sampling Date:		07/15/03		07/15/03		07/17/03		07/15/03	
% Moisture		NA		NA		NA		NA	
units: ug/L		NA		NA		NA		NA	
units: ug/L									
Analyte									
Chloromethane		10	UJ	10	U	10	UJ	10	UJ
Bromomethane		10	U	10	U	10	U	10	U
Vinyl Chloride		10	U	10	U	10	U	10	U
Chloroethane		10	U	10	UJ	10	U	10	UJ
Methylene Chloride		10	U	10	UJ	10	U	10	UJ
Acetone		10	U	10	UJ	10	U	10	UJ
Carbon Disulfide		10	U	10	U	10	U	10	U
1,1-Dichloroethene		10	U	10	U	10	U	10	U
1,1-Dichloroethane		10	U	10	U	10	U	10	U
1,2-Dichloroethene (total)		10	U	18		10	U	10	U
2-Butanone		10	U	10	U	10	U	10	U
Chloroform		10	U	10	U	10	U	10	U
1,2-Dichloroethane		10	U	10	U	10	U	10	U
1,1,1-Trichloroethane		10	U	10	U	10	U	10	U
Carbon Tetrachloride		10	U	10	U	10	U	10	U
Bromodichloromethane		10	U	10	U	10	U	10	U
1,2-Dichloropropane		10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene		10	U	10	U	10	U	10	U
Trichloroethene		10	U	18		10	U	10	U
Benzene		10	U	10	U	10	U	10	U
Dibromochloromethane		10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene		10	U	10	U	10	U	10	U
1,1,2-Trichloroethane		10	U	10	U	10	U	10	U
Bromoform		10	UJ	10	U	10	UJ	10	UJ
4-Methyl-2-Pentanone		10	U	10	U	10	U	10	U
2-Hexanone		10	U	10	U	10	U	10	U
Tetrachloroethene		530		1,100		10	U	10	U
1,1,2,2-Tetrachloroethane		10	U	10	U	10	U	10	U
Toluene		10	U	10	U	10	U	10	U
Chlorobenzene		10	U	10	U	10	U	10	U
Ethylbenzene		10	U	10	U	10	U	10	U
Styrene		10	U	10	U	10	U	10	U
Xylene (total)		10	U	10	U	10	U	10	U
TVOCs		530		1,136		ND		ND	
TICs		ND		ND		ND		ND	



Table 9  
Standards, Criteria, and Guidance (SCGs)  
Remedial Investigation / Alternatives Analysis Report  
October 2017  
American Cleaners, Caldor Plaza, 360 Route 211, Middletown, NY 10940  
NYS DEC DER VCP No. V-00461-3

Citation	Title	Regulatory Agency
<b>General</b>		
29CFR 1910.120	Hazardous Waste Operations and Emergency Response	US Dept. of Labor, OSHA
29CFR 1910.1000	OSHA General Industry Air Contaminants Standard	US Dept. of Labor, OSHA
29CFR 1926	Safety and Health Regulations for Construction	US Dept. of Labor, OSHA
Not Applicable	Analytical Services Protocol	NYSDEC
6NYCRR Part 608	Use and Protection of Waters	NYSDEC
6NYCRR Part 621	Uniform Procedures Regulations	NYSDEC
6NYCRR Parts 750-757	State Pollutant Discharge Elimination System	NYSDEC
Not Applicable	New York State Stormwater Management Design Manual	NYSDEC
Section 404	Clean Water Act	USACE
<b>Soil/Fill</b>		
6NYCRR Part 375	Environmental Remediation Programs	NYSDEC
DEC Policy CP-51	Soil Cleanup Guidance	NYSDEC
NYSDEC, June 2014	Technical Guidance for Screening Contaminated Sediments: LEL/SEL	NYSDEC
<b>Groundwater</b>		
6NYCRR Part 700-705	Surface Water and Ground Water Classification Standards	NYSDEC
TOGS 1.1.1	Ambient Water Quality Standards and Guidance Values	NYSDEC
TOGS 2.1.3	Primary and Principal Aquifer	NYSDEC
<b>Air/Soil Vapor</b>		
DER-10 Appendix 1B	Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites	NYSDEC
NYSDOH, October 2006	Final - Guidance for Evaluating Soil Vapor Intrusion in the State of NY	NYSDOH
<b>Solid Waste</b>		
6NYCRR 360	Solid Waste Management Facilities	NYSDEC
6NYCRR 364	Waste Transporters	NYSDEC



**TABLE 10 - SUMMARY OF VOLATILE ORGANIC COMPOUNDS DETECTED AND/OR  
ELEVATED ABOVE NYSDEC CLASS GA AMBIENT WATER QUALITY STANDARDS**

American Cleaners, Middletown, New York  
SDG BER023, BER025

Berninger Sample ID:

Laboratory ID:

Sampling Date:

% Moisture

units: ug/L

GW-6A 6-10  
511616  
11/18  
NA

GW-6B (6-8)  
511615  
11/18  
NA

SW DRAIN  
511614  
11/17  
NA

TEMP-1 (GW)  
511613  
11/17  
NA

TEMP-3 (GW)  
511612  
11/17  
NA

TEMP-4 (GW)  
511611  
11/18  
NA

TEMP-5 (GW)  
511610  
11/18  
NA

NYSDEC CLASS GA  
AMBIENT WATER  
QUALITY STANDARDS  
GUIDANCE VALUES  
units: ug/L

Analyte	GW-6A 6-10	GW-6B (6-8)	SW DRAIN	TEMP-1 (GW)	TEMP-3 (GW)	TEMP-4 (GW)	TEMP-5 (GW)	NYSDEC CLASS GA AMBIENT WATER QUALITY STANDARDS GUIDANCE VALUES units: ug/L
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Vinyl Chloride	15	5 U	5 U	5 U	3 J	3 J	3 J	2
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
Methylene Chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Acetone	11 U	9 U	7 U	8 U	11 U	12 U	51 U	50
Carbon Disulfide	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
1,1-Dichloroethene	1 J	5 U	5 U	5 U	5 U	5 U	5 U	50
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
1,2-Dichloroethene (total)	430	86	5 U	5 U	25	79	160	5
2-Butanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
Chloroform	1 J	1 J	5 U	5 U	5 U	5 U	5 U	7
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Carbon Tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Trichloroethene	300	46	5 U	5 U	16	24	41	5
Benzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.7
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA
trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
4-Methyl-2-Pentanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
2-Hexanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
Tetrachloroethene	7800	3200	5	2 J	870	1000	1700	5
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Toluene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Styrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
TOTAL VOCs	8547	3333	5	2	911	1111	1912	5
TOTAL TENTATIVELY IDENTIFIED CMPDS	7	ND	ND	ND	192	ND	ND	NA = Not Applicable ND=None Detected



**TABLE 10 - SUMMARY OF VOLATILE ORGANIC COMPOUNDS DETECTED AND/OR  
ELEVATED ABOVE NYSDEC CLASS GA AMBIENT WATER QUALITY STANDARDS**

American Cleaners, Middletown, New York  
SDG BER023, BER025

Berninger Sample ID:

Laboratory ID:

Sampling Date:

% Moisture

units: ug/L

P-1

Analyte	Field Blank 11/18 511609 11/18 NA	Trip Blank 11/17 511608 11/17 NA	Trip Blank 11/18 511607 11/18 NA	Storm Sewer Well 512627 12/20 NA	TEMP-6 (GW) 512626 12/19 NA	TEMP-7 (GW) 512615 12/19 NA	TEMP-8 (GW) 512624 12/20 NA	NYSDEC CLASS GA AMBIENT WATER QUALITY STANDARDS GUIDANCE VALUES units: ug/L
Chloromethane	5 U	5 U	5 U	5 UJ	5 UJ	5 UJ	5 UJ	NA
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Vinyl Chloride	5 U	5 U	5 U	5 U	1 J	5 U	5 U	2
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
Methylene Chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Acetone	7 U	5 U	9 U	5 U	5 U	5 U	5 U	50
Carbon Disulfide	5 U	5 U	5 U	5 UJ	5 UJ	5 UJ	5 UJ	50
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
1,2-Dichloroethene (total)	5 U	5 U	5 U	5 U	64	5 U	5 U	5
2-Butanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Carbon Tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Trichloroethene	5 U	5 U	5 U	5 U	5 U	1 J	5 U	5
Benzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.7
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA
trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
4-Methyl-2-Pentanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
2-Hexanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50
Tetrachloroethene	5 U	5 U	5 U	5 U	5 U	5	5 U	5
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Toluene	5 U	5 U	5 U	1 J	5 U	5 U	5 U	5
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Styrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5
TOTAL VOCs	0	0	0	1	0	71	0	
TOTAL TENTATIVELY IDENTIFIED CMPDS	ND	ND	ND	ND	ND	ND	ND	NA = Not Applicable ND=None Detected



**TABLE 10 - SUMMARY OF VOLATILE ORGANIC COMPOUNDS DETECTED AND/OR  
ELEVATED ABOVE NYSDEC CLASS GA AMBIENT WATER QUALITY STANDARDS**

American Cleaners, Middletown, New York

SDG BER023, BER025

Berninger Sample ID:

Laboratory ID:

Sampling Date:

% Moisture

units: ug/L

Field Blank 12/19

512623

12/19

NA

Trip Blank 12/19

512622

12/19

NA

NYSDEC CLASS GA

AMBIENT WATER

QUALITY STANDARDS

GUIDANCE VALUES

units: ug/L

Analyte	Field Blank 12/19	Trip Blank 12/19	NYSDEC CLASS GA
Chloromethane	5 UJ	5 UJ	NA
Bromomethane	5 U	5 U	5
Vinyl Chloride	5 U	5 U	2
Chloroethane	5 U	5 U	50
Methylene Chloride	5 U	5 U	5
Acetone	5 U	5 U	50
Carbon Disulfide	5 UJ	5 UJ	50
1,1-Dichloroethene	5 U	5 U	5
1,1-Dichloroethane	5 U	5 U	5
1,2-Dichloroethene (total)	5 U	5 U	5
2-Butanone	5 U	5 U	50
Chloroform	5 U	5 U	7
1,2-Dichloroethane	5 U	5 U	5
1,1,1-Trichloroethane	5 U	5 U	5
Carbon Tetrachloride	5 U	5 U	5
Bromodichloromethane	5 U	5 U	50
1,2-Dichloropropane	5 U	5 U	1
cis-1,3-Dichloropropene	5 U	5 U	5
Trichloroethene	5 U	5 U	5
Benzene	5 U	5 U	0.7
Dibromochloromethane	5 U	5 U	NA
trans-1,3-Dichloropropene	5 U	5 U	NA
1,1,2-Trichloroethane	5 U	5 U	5
Bromoform	5 U	5 U	50
4-Methyl-2-Pentanone	5 U	5 U	50
2-Hexanone	5 U	5 U	50
Tetrachloroethene	5 U	5 U	5
1,1,2,2-Tetrachloroethane	5 U	5 U	5
Toluene	5 U	5 U	5
Chlorobenzene	5 U	5 U	5
Ethylbenzene	5 U	5 U	5
Styrene	5 U	5 U	5
Xylene (total)	5 U	5 U	5
<b>TOTAL VOCs</b>	<b>0</b>	<b>0</b>	
<b>TOTAL TENTATIVELY IDENTIFIED CMPDS</b>	<b>ND</b>	<b>ND</b>	<b>NA = Not Applicable</b>

ND=None Detected

Table 11  
Comparison of Remedial Alternatives  
Remedial Investigation / Alternatives Analysis Report  
October 2017

American Cleaners, Caldor Plaza, 360 Route 211, Middletown, NY 10940

NYS DEC DER VCP No. V-00461-3

✓ = Alternative Satisfies Criterion

TBE = To be evaluated after Public Comment

NYS DEC DER-10 Evaluation Criteria	Alternative 1 No Action	Groundwater Cleanup	
		Alternative 2 Chemical Oxidation	Alternative 3 Bioremediation
Overall Protection of Public Health and Environment		✓	✓
Compliance with Standards, Criteria, Guidance (SCGs)		✓	✓
Long Term Effectiveness and Performance		✓	✓
Reduction of Toxicity, Mobility & Volume of Contaminant		✓	✓
Short Term Impacts and Effectiveness		✓	✓
Implementability (Technical & Administrative)		✓	✓
Cost Effectiveness (in Presnet Worth)	\$0	\$10,000	\$8,000
Community Acceptance	TBE	TBE	TBE
Land Use	✓	✓	✓



**Table 12**

(RAWP 2/12 Table 1)

Summary of Soil Sampling for Volatile Organic Compounds  
 American Cleaners at Caldor/Lloyds Mall, Middletown – VCP No. V-00461  
 All Sampling for 2001 and 2003 was conducted by Berninger  
 Sampling in 2009 was Conducted by Mid-Hudson Geosciences  
 Prepared by Mid-Hudson Geosciences

Sample Identification	Previous Table Number	Sample Depth (feet)	Sample Date	Parameters				
				PCE µg/kg	TCE µg/kg	DCE µg/kg	VC µg/kg	VOCs µg/kg
D-1	RIR 3	0.75'	Nov. 09	ND	ND	ND	ND	ND
D-2	RIR 3	1.5'	Nov. 09	ND	ND	ND	ND	ND
D-3	RIR 3	5'	Nov. 09	ND	ND	ND	ND	ND
D-4	RIR 3	5.75'	Nov. 09	57	ND	ND	ND	57
MW-22	RIR 3	0'-0.5'	Nov. 09	ND	ND	ND	ND	ND
MW-24	RIR 3	14'	Nov. 09	ND	ND	ND	ND	ND
MW-24	RIR 3	16'	Nov. 09	ND	ND	ND	ND	ND
MW-25	RIR 3	6.8'	Nov. 09	44	5	6J	ND	54
MW-28	RIR 3	4.5'	Nov. 09	ND	ND	ND	ND	ND
MW-28	RIR 3	9'	Nov. 09	ND	ND	ND	ND	ND
BEI-1	RIR 5	2'-2.5'	6/18/2003	ND	ND	ND	ND	ND
BEI-3	RIR 5	2'	6/18/2003	18	ND	ND	ND	18
BEI-3	RIR 5	10'	6/18/2003	1,900	15	4J	ND	1,919
BEI-4	RIR 5	8'-10'	6/18/2003	57	ND	ND	ND	57
BEI-5	RIR 5	2'-3'	6/18/2003	130	2J	2J	ND	134
BEI-7	RIR 5	5'-9'	6/19/2003	ND	ND	ND	ND	ND
BEI-9	RIR 5	10'-12'	6/19/2003	500	19	51	ND	570
BEI-5/11	RIR 5	3.5'	7/16/2003	840J	25	29	ND	894
BEI-5/11	RIR 5	7'-8'	7/16/2003	20	ND	5	ND	25
BEI-10	RIR 5	5'-6'	7/16/2003	78,000	63	ND	ND	78,063
BEI-12	RIR 5	5'	7/16/2003	1,300	46	64	ND	1,410
BEI-12	RIR 5	7'	7/16/2003	940	16	28	ND	984
B-1	RIR Fig. 5-3	---	Mar. 01	860				
B-2	RIR Fig. 5-3	---	Mar. 01	489				
B-3	RIR Fig. 5-3	---	Mar. 01	449				
B-4	RIR Fig. 5-3	---	Mar. 01	217				
B-5	RIR Fig. 5-3	---	Mar. 01	1,420				
B-9	RIR Fig. 5-3	---	Mar. 01	3,296				
B-10	RIR Fig. 5-3	---	Mar. 01	482				
NYSDEC 375.5 Unrestricted Use Soil Cleanup Objectives				1300	470	250	20	

Note: ND is "Not Detected" above the Method Detection Limit

**Table 16**  
(modified RAWP 2/12 Table 2)  
Summary of Soil-Gas Sampling for Volatile Organic Compounds  
American Cleaners, Middletown, NY  
All Sampling for 2003 and 2005 was conducted by Berninger.  
Sampling in 2012 was conducted by Jansen Engineering, PLLC  
and Mid-Hudson Geosciences

Sample Identification	Previous Table No.	Sample Date	Analytes				Total VOCs µg/m <sup>3</sup>
			PCE µg/m <sup>3</sup>	TCE µg/m <sup>3</sup>	DCE µg/m <sup>3</sup>	VC µg/m <sup>3</sup>	
SG-1	6	6/16/2003	1800J	1500J	ND	3J	3371J
SG-2	6	6/16/2003	630J	530J	ND	160	1373J
SG-3	6	6/16/2003	620J	ND	ND	ND	707J
SG-4	6	6/16/2003	510J	20J	ND	3J	542J
SG-5	6	6/16/2003	480J	ND	ND	ND	492J
SG-6	6	6/16/2003	ND	ND	ND	ND	ND
SG-7	RIR fig 5-6	Jun. 2003	ND	---	---	---	3
SG-8	RIR fig 5-6	Jun. 2003	500J	---	---	---	572J
SG-9	RIR fig 5-6	Jun. 2003	1800J	---	---	---	2366J
SG-10	RIR fig 5-6	Jun. 2003	ND	---	---	---	6
SG-11	RIR fig 5-6	Jun. 2003	460	---	---	---	474J
SG-12	RIR fig 5-6	Jun. 2003	ND	---	---	---	7
SG-14	RIR fig 5-6	Jun. 2003	ND	---	---	---	66
SG-15	RIR fig 5-6	Jun. 2003	ND	---	---	---	71
SG-16	RIR fig 5-6	Jun. 2003	ND	---	---	---	15
SG-18	RIR fig 5-6	Jun. 2003	ND	---	---	---	ND
SG-19	RIR fig 5-6	Jun. 2003	ND	---	---	---	361
SG-1(rep)	9	11/17/2005	580,000	11000	710	ND	598,100
SG-20	RIR fig 5-6	Jun. 2003	520J	---	---	---	523J
SG-21	RIR fig 5-6	Jun. 2003	610J	---	---	---	1181J
SG-22	RIR fig 5-6	Jun. 2003	1600J	---	---	---	2745J
SG-23	RIR fig 5-6	Jun. 2003	410J	---	---	---	448J
SG-24	RIR fig 5-6	Jun. 2003	63	---	---	---	73
SG-25	9	11/17/2005	120,000	640	ND	ND	120,640
SG-26	9	11/17/2005	2	90	75	6.6	297
SG-27	9	11/17/2005	160	49	ND	ND	567
SG-28	9	11/17/2005	120	79	ND	ND	278
SG-29	9	11/18/2005	2	150	ND	ND	375
SG-30	9	11/18/2005	ND	24	ND	ND	111
SG-31	9	11/18/2005	ND	120	ND	ND	6,750
SSV-1	9	11/18/2005	20,000	ND	160	ND	20,170
Re-Evaluation Samples:							
SG11	None	08/14/2012	46.3	ND	ND	6.18	N/A
SG25	None	08/14/2012	35.5	ND	ND	ND	N/A

Note: ND indicates not detected about method detection limit.  
N/A indicates not available or not applicable.



Table 17  
Summary of PCE and other Chlorinated Volatile Organic Compounds  
Detected in Groundwater, Surface Water, and Sediments using US EPA Method 8260B  
American Cleaners, Caldor Plaza, 360 Route 211, Middletown, NY 10940  
NYSDEC DER VCP Site V-00461-3  
Summary of Sampling Events of July 2003, November 2005, January 2010, July 2012, and Apr-Jun 2017  
All Laboratory analyses were conducted by York Analytical Laboratories  
120 Research Drive, Stratford, CT 06615  
All Laboratory Reports are included in Appendix  
All Data Useability Summary Reports are included in a separate Appendix.  
Prepared by Mid-Hudson Geosciences and Jansen Engineering, PLLC  
ND = Not Detected at method detection limit,  
"J" = estimated concentration, less than Reporting Limit, but greater than detection limit.  
All concentrations are reported in Micrograms/Liter or (µg/L)

MW ID	July 2003			January 2010			July 2012			Apr-Jun 2017		
	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
MW1B	ND	ND	ND	ND	ND	ND						
MW2	1100 J	ND	ND	110	ND	ND						
MW3	1700J	31	72	430	10J	15J						
MW4	6J	ND	ND	ND	ND	ND						
MW5	4000J	11	32	240	11	5J						
MW6	530	ND	ND	280	ND	ND						
MW7	1100	18	18	69	7	3J						
	Nov 2005						July 2012			Apr-Jun 2017		
	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE	PCE	TCE	DCE
T1	2J	ND	ND	ND	ND	ND						
T2												
T3	870	16	25	18	2J	1J						
T4	1000	24	79	1J	ND	ND						
T5	1200	41	160	47	4J	24	47	4J	24	340	ND	ND
T6	ND	ND	ND	Nd	ND	ND						
T7	1	ND	64	ND	ND	1J	ND	ND	ND	paved over, see MW34		
T8	ND	ND	ND	ND	ND	ND						
T9	ND	ND	ND	ND	ND	ND						
MWSSW	ND	ND	ND									
Swdrain	5	ND	ND									
SW1				ND	ND	ND						
SW1				ND	ND	ND						
SED1				ND	ND	ND						
SED2				ND	ND	ND						
MW21				ND	ND	ND						
MW22				42	ND	ND						
MW24				ND	ND	ND						
MW24dup				ND	ND	ND						
MW25				910	19	22	1300	17	15	570		
MW26				2600	64	64	2200	58	64	1800		
MW28				270	24	25	250	14	43	paved over, see MW32		
MW30				110	ND	ND						
MW31				ND	ND	ND						
MW32										260	32	28
MW32dup										250	25	32
MW33										200	19	23
MW34										ND	ND	ND

Notes: SW1 and SW2 are surface water samples from storm drainage on the south side of Route 211 downgradient from Site.  
No entry indicates no sample was collected during that sampling event.  
SED1 and SED 2 = sediment samples from drainage channel on south side of Route 211  
"dup" = duplicate sample  
MWSSW = monitoring well next to storm water drainage grate near northeast corner of building  
Swdrain = sample collected from water in the drainage way accessible from the surface collection grate

**APPENDIX A**  
**Monitoring Well Construction Diagram and Soil Boring Logs**

**Berninger BEI-Series (July 2003)**  
**Berninger T-Series (Nov-Dec 2005)**  
**Berninger GP-Series (September 2008)**  
**Mid-Hudson Geosciences (November 2009)**  
**Mid-Hudson Geosciences (May 2017)**

**American Cleaners Middletown**  
**Orange County, New York**

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**Remedial Investigation/  
Alternative Analysis Report:  
Operable Unit #2 Groundwater  
NYSDEC Site Number: V-00461-3**

**Prepared for:**  
AMERICAN CLEANERS, Inc.

360 Route 211 East  
Middletown, NY 10940

**Prepared by:**  
Jansen Engineering, PLLC  
72 Coburn Drive  
Poughkeepsie, NY 12603  
(845) 505-0324  
and  
Mid-Hudson Geosciences  
1003 Route 44/55, PO Box 32  
Clintondale, NY 12615-0032  
(845) 883-5726

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**JANUARY 2018**

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# Berninger Environmental, Inc.

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## Soil Boring Log American Cleaners - Middletown, New York

Project: <u>American Middletown, New York</u>	BORE HOLE DATE
Date: <u>July 2003</u>	Hole Diameter: <u>Two Inch</u>
Page: <u>Three</u>	Total Depth (2): <u>Variable, see log</u>
Logged By: <u>Jill Haimson, CGWP, PG</u>	SAMPLER
Company: <u>BEI</u>	Type: <u>Geoprobe Macrocore/LB</u>
Drilling Started: _____ Ended: _____	Hammer: <u>Hydraulic</u>
Driller: <u>Butch/Pete</u>	
Type of Rig: <u>Geoprobe</u>	REMARKS: VCP Site # V00461-3

H <sub>Nu</sub> Response Units, ppm	Sample				Sample Description	Sample
	No.	Rec. %	Depth (ft) bgs	Sample Depth		Lithology <sup>1</sup>
0	BEI-01	75	0 - 3 ft bgs	2-2.5 ft	Upper six inches is fill material (asphalt gravel); six inches of silty clay followed by grey dense clay with fine sand and small angular gravel.	CL/ML
0	BEI-01	65	3 - 6 ft bgs (refusal)		Upper six inches -soft clay; next 2 feet plastic dense clay-till, remainder grey dense clay with angular gravel. Saturated at 6 ft bgs. Refusal.	CH/CL
0	BEI-02	90	0 - 4 ft bgs		Upper one foot fill material; next foot was plastic brown silty clay w/less gravel; 3-4 feet was grey dense clay till w/med. gravel.	CL/ML
0	BEI-02	85	4 - 8 ft bgs		Plastic dense clay till w/med. gravel.; harder more compact, interbedded with less plastic dense till.	CL/ML
0	BEI-02	90	8 - 11.5 ft bgs	No sample	Dense till extremely hard/compact, larger cobbles, refusal at 11.5 ft.	CL/ML
200+	BEI-03	65	0 - 4 ft bgs	2.0 ft	Upper one foot degraded asphalt; followed by silty brown clay with dense intermixed fine sand.	SC/ML
30+	BEI-03	85	4 - 8 ft bgs		Silty clay with dense clay mixed with fine sand.	SC/ML
30-50+	BEI-03	50	8 - 12 ft bgs	10.0 ft	Silty clay 8-10 feet; Dense grey till @ 10 ft; saturated at 9.0 ft.	SC/CL
3	BEI-04	25	8 - 10 ft bgs		Medium brown grey till, with gravel. Dry.	CL

<sup>1</sup> Unified Soil Classification System.



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1900+	BEI-05	60	2.5 ft bgs (refusal)	2.5 ft	Brown silty clay with fine sand and gravel. Strong chemical odor (PCE). Hit refusal at 2.5 ft.	SC/CL
<2	BEI-06	75	0 - 4 ft bgs (refusal)		Upper six inches fill material; next two feet was moderately dense brown silty clay w/fine sand; 3-4 feet same with large component of fine sand. Dry.	CL
0	BEI-07	80	0 - 4 ft bgs		Upper six inches fill material; transitional brown silty clay to dense till at 3.8 ft; refusal at 5 ft; moved over and continued. Dry.	CL
0	BEI-07	75	4 - 9 ft bgs	5-9 ft	Dense clay till w/med. gravel. Dry.	CL
0	BEI-08	90	8 - 10 ft bgs	no sample	Dry dense grey till with gravel. Dry.	CL
0	BEI-09	75	0 - 4 ft bgs		Upper four feet was noted to be fill material.	--
7-8+	BEI-09	75	4 - 8 ft bgs		4-7.5 feet was noted to be fill material; transitioned into grey dense till at 7.5 ft. Dry.	-/CL
8+	BEI-09	25	8 - 12 ft bgs	10-12 ft bgs	Light brown silty clay and Dense grey till very saturated; little recovery.	SC/CL
30+	BEI-10	75	0 - 4 ft bgs		Upper one foot was noted to be concrete. Next three feet was dry plastic silty-clay. Disturbed.	SC/ML
233+	BEI-10	75	4 - 8 ft bgs	5-6 ft bgs	Dense grey till, unsaturated, stress fractures from drilling, 5-6 ft highest PID response.	CL
0	BEI-10	variab le	8 - 26 ft bgs		Continuous coring from 8-26 ft; all grey dense till. No saturation. Dry. Refusal at 26 ft bgs.	CL
80- 125+	BEI- 11/BEI- 05	75	0-4 ft bgs	3.5 ft bgs	Upper three feet was fill and brown silty clay. Dense grey till noted at 7 feet bgs. Highest PID at 3.5 ft.	ML/CL
0-10+	BEI- 11/BEI- 05	85	4-8 ft bgs	7-8 ft bgs	Dense grey till noted from 4-8 feet bgs. Slightly wet at 6 ft.	CL
<5	BEI-12	60	0 - 4 ft bgs		Upper foot crushed concrete, followed by three feet of silty clay, crumbly.	ML
30-40+	BEI-12	85	4 - 8 ft bgs	5 ft bgs 7 ft bgs	Very moist clayey silt. @ 5.5 ft, grading into a dense till.	ML/CL



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<5	BEI-12	0	8 - 24 ft bgs		Attempted a groundwater sample every 2-4 feet down to 24 feet bgs; all dry except one foot zone at 6-7 ft bgs.	--
<1	BEI-13	90	0 - 4 ft bgs		Upper four feet saturated from boiler condensate discharges. Silty brown clay with gravel, dense. Dense till noted at 3 feet bgs.	SC/ML
--	BEI-13	0	4 - 11 ft bgs	no sample	Groundwater samples. 9-11 ft very turbid.	--
--	BEI-14	0	0 - 4 ft bgs (refusal)	no sample	Blind boring to 4 ft bgs; refusal. Attempted groundwater sampling at 4 ft bgs; dry.	--
--	BEI-15	0	0 - 7 ft bgs (refusal)	no sample	Blind boring to 7 ft bgs; refusal. Attempted groundwater sampling 4-7 ft bgs; dry.	--
--	BEI-16	0	0 - 22 ft bgs	no sample	Blind boring to 22 ft bgs. Attempted groundwater sampling; dry.	--
--	BEI-17	0	0 - 22 ft bgs	no sample	Blind boring to 22 ft bgs. Attempted groundwater sampling every 2-4 feet; dry.	
<1	BEI-18	0	0 - 6 ft bgs (refusal)	no sample	Upper 1-2 feet brown clayey slit grading into dense till at 3 feet bgs. Refusal at 6 feet bgs. Slightly wet at 4 ft.	ML/CL
<1	BEI-19	0	0 - 14 ft bgs (refusal)	no sample	Blind boring to 14 feet bgs. Groundwater sampling at 6-8 ft and 12-14 ft.	--

Remarks: (1) In feet above mean sea level from measuring point located on top of well casing  
(2) All depths in feet below land surface.

Ft bgs = feet below grade surface

ppm response units = parts per million PID response units.



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## Soil Boring Log

American Cleaners - Middletown, New York

<b>Project:</b> <u>American Middletown, New York</u> <b>Date:</b> <u>November - December 2005</u> <b>Page:</b> <u>Three</u> <b>Logged By:</b> <u>Jill Haimson, CGWP, PG</u> <b>Company:</b> <u>BEI</u> <b>Drilling Started:</b> _____ <b>Ended:</b> _____ <b>Driller:</b> <u>Butch/Pete</u> <b>Type of Rig:</b> <u>Geoprobe</u>	<b>BORE HOLE DATE</b> <b>Hole Diameter:</b> <u>Two Inch</u> <b>Total Depth (2):</b> <u>Variable, see log</u> <b>SAMPLER</b> <b>Type:</b> <u>Geoprobe Macrocore/LB</u> <b>Hammer:</b> <u>Hydraulic</u> <b>REMARKS:</b> <u>VCP Site # V00461-3</u>
--	--

Sample				Sample Description	Sample
No.	Rec. %	Depth (ft) bgs	Sample Depth		Lithology <sup>1</sup>
Temp Well-01	95	0 - 4 ft bgs		Grey dense clay with fine sand and large angular gravel, slightly wet from recent rain.	CL/ML
Temp Well-01	95	4 - 8 ft bgs		Dense organic till with rock fragments.	ML
Temp Well-01	90	8 - 12 ft bgs		Dense organic till with rock fragments, small separated thin zones slightly wet. Depth to groundwater was 9.70 ft bgs.	CL/ML
Temp Well-01	85	12 - 16 ft bgs		Dense silty clay till with small separated thin zones slightly wet	CL/ML
Temp Well-01	90	16 - 19 ft bgs		Saturated silty clay with very fine sand. Temp well-1 set with ten feet 0.10 screen from 9-19 ft bgs, 0-9 ft solid riser.	ML
Temp Well-02		0 - 8 ft bgs (refusal)		Set well - dry, encountered refusal. No water encountered.	NA
Temp Well-03	90	0 - 4 ft bgs		Grey dense till and angular gravel,	CL/ML
Temp Well-03	95	4 - 8 ft bgs		4-6 feet bgs partially saturated; fine silty clay with gravel, 7-8 ft bgs was gravely black organic clay with large rock fragments.	ML
Temp Well-03	90	8 - 12 ft bgs		8-9 feet bgs saturated clay, followed by dry dense organic till; 10-11 feet bgs sandy silty clay (partially saturated). Depth to groundwater was 9.90 ft bgs.	ML

<sup>1</sup> Unified Soil Classification System.



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Temp Well-03	85	12 - 16 ft bgs		Saturated silty clay till with fine sand.	ML
Temp Well-03	90	16 - 20 ft bgs		Thin gravel and angular stone layer, wet. Saturated silty clay with very fine sand. Temp well-3 set with ten feet 0.10 screen from 10-20 ft bgs, 0-10 ft solid riser.	ML
Temp Well-04		0-20 ft bgs		Temp well-4 set with ten feet 0.10 screen from 10-20 ft bgs, 0-10 ft solid riser. Depth to groundwater was 11.17 ft bgs.	NA
Temp Well-05		0-20 ft bgs		Temp well-5 set with ten feet 0.10 screen from 10-20 ft bgs, 0-10 ft solid riser. Depth to groundwater was 19.8 ft bgs.	NA
Temp Well-06	90	0 - 4 ft bgs		2-inches of asphalt. Grey dense clay with fine sand and large angular gravel from 0-2 feet bgs; with plastic clay slightly wet from 204 feet bgs.	ML
Temp Well-06	85	4 - 8 ft bgs		Rock, grey-green silty fine sand interbedded with silty plastic clay; partially saturated.	CL/ML
Temp Well-06	90	8 - 12 ft bgs		8-9 feet bgs same clay as above; 9-11 fine sand in clay (wet); 11-12 feet bgs was grey clay dryer and brittle;	CL/ML
Temp Well-06	80	12 - 16 ft bgs		12-13 brown sandy layer saturated; 13-15 dark grey clay more plastic, less wet. 15-16 feet bgs, plastic more disturbed clay with red angular fragments, yellowish clay with angular dryer texture.	SM/CL
Temp Well-06	90	16 - 20 ft bgs		Grey very saturated silty fine sand, grading into tighter grey clay. Bedrock at 20 feet bgs - dark black colored shale. Temp well-1 set with ten feet 0.10 screen from 9-19 ft bgs, 0-9 ft solid riser.	CL/ML
Temp Well-07		0-18 ft bgs		Refusal at 18 feet bgs. Temp well-7 set with ten feet 0.10 screen from 8-18 ft bgs, 0-8 ft solid riser.	NA
Temp Well-08		0-18 ft bgs		Refusal at 18 feet bgs. Temp well-8 set with ten feet 0.10 screen from 8-18 ft bgs, 0-8 ft solid riser. Depth to groundwater was 16"9".	NA
Temp Well-09		0-20ft bgs		Temp well-9 set with ten feet 0.10 screen from 10-20 ft bgs, 0-10 ft solid riser.	NA
Storm Sewer Well		0-12 feet bgs		Five feet of 2-inch PVC 0.20 screen set from 7-12 ft bgs. Saturated at 7 feet bgs. Dense grey till from 0-5 feet bgs; grading into sandy silty plastic clay (saturated0.	NA




 <b>BERNINGER ENVIRONMENTAL INC.</b> groundwater consultants and geologists 90 B Knickerbocker Avenue Phone # (631) 589-6521 Bohemia, New York 11716 Fax # (631) 589-6528		<b>PROJECT:</b> American Cleaners VCP Site # V00461-3 <b>LOCATION:</b> Route 211, Middletown, New York <b>DATE:</b> 9/9/08 Through 9/10/08		<b>SOIL BORING/MONITORING WELL CONSTRUCTION LOG</b>  <b>BORING NO.:</b> GP-1 <b>MON WELL ID:</b> MW-9 (Proposed)	
		<b>PROJECT NO.:</b>		<b>SHEET 1 OF 1</b>	
<b>BORING LOCATION:</b> South of American Cleaners			<b>LOGGED BY:</b> David Kahn		
<b>GROUND SURFACE ELEVATION:</b> NA			<b>MEASURING POINT ELEVATION:</b> NA		
<b>START TIME:</b> 9:15 <b>DATE:</b> 9-10-08			<b>DRILLING CO.:</b> Berninger Environmental Inc.		
<b>FINISH TIME:</b> <b>DATE:</b>			<b>DRILLERS NAME:</b> Jon Jefferies ; Eusi Watkins		
<b>SAMPLING METHOD:</b> Continuous soil screening			<b>GROUNDWATER OBSERVATIONS</b>		
			<b>DATE</b>	<b>TIME</b>	<b>NOTES</b>
<b>DRILLING METHOD AND RIG TYPE:</b> Geoprobe 6610DT Direct Push with 5 foot 2 1/4 " O.D. Rods with PVC Liner					
<b>DEPTH (FT)</b>	<b>SAMPLE</b>				<b>GRAPHIC LOG</b>
	<b>DEPTH (FT)</b>	<b>REC. (IN.)</b>	<b>BLOWS/ 6 IN.</b>	<b>PID (PPM)</b>	
1	0-5	33	NA	0.0	4" Asphalt; 10" Brown clayey silt; 23" Dense wet brown clayey silt; No odors or staining
2					
3					
4					
5	5-10	60	NA	0.0	Dense Grey Till with rock fragments and fine gravel; No odor or staining; Dry
6					
7					
8					
9	10-15	55	NA	0.0	Dense grey till with fine to medium interbedded gravel; No odors or staining; Dry.
10					
11					
12					
13	15-20	58	NA	0.0	Dense grey till with some brown silt and rock fragments; No odors or staining; Dry Refusal encountered at 19 feet below grade surface.
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					


DEEP MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b> 19	<b>RISER INTERVAL:</b> 0-14 Feet	<b>MANHOLE:</b> 5" Boltdown
<b>DIA. (IN.):</b> 2	<b>DEPTH/TYPE PACK:</b> 19-12 Ft. / #1 Gravel	<b>WELL ENDCAP:</b> 2" Domecap
<b>WELL MATERIAL:</b> SCH. 40 PVC	<b>DEPTH/TYPE SEAL:</b> 12-7 Ft. / Bentonite	<b>WELL CAP:</b> 2" J-Plug
<b>SCREEN SLOT SIZE:</b> 10	<b>BACKFILL OVER SEAL:</b> 7-0 Ft Grout	
<b>SCREEN INTERVAL:</b> 14-19 Feet	<b>SURFACE SEAL:</b> Grout	


SHALLOW MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b> 10	<b>RISER INTERVAL:</b> 0-5 Feet	<b>MANHOLE:</b> 5" Boltdown
<b>DIA. (IN.):</b> 2	<b>DEPTH/TYPE PACK:</b> 10-3 Ft. / #1 Gravel	<b>WELL ENDCAP:</b> 2" Domecap
<b>WELL MATERIAL:</b> SCH. 40 PVC	<b>DEPTH/TYPE SEAL:</b> 3-1 Ft. / Bentonite	<b>WELL CAP:</b> 2" J-Plug
<b>SCREEN SLOT SIZE:</b> 10	<b>BACKFILL OVER SEAL:</b> 1-0 Ft. Grout	
<b>SCREEN INTERVAL:</b> 5-10 Feet	<b>SURFACE SEAL:</b> Grout	




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		<b>PROJECT NO.:</b>		<b>SHEET 1 OF 1</b>	
<b>BORING LOCATION:</b> West of American Cleaners			<b>LOGGED BY:</b> David Kahn		
<b>GROUND SURFACE ELEVATION:</b> NA			<b>MEASURING POINT ELEVATION:</b> NA		
<b>START TIME:</b> 1:30 <b>DATE:</b> 9/9/08			<b>DRILLING CO.:</b> Berninger Environmental Inc.		
<b>FINISH TIME:</b> <b>DATE:</b>			<b>DRILLERS NAME:</b> Jon Jefferies ; Eusi Watkins		
<b>SAMPLING METHOD:</b> Continuous soil screening			<b>GROUNDWATER OBSERVATIONS</b>		
			<b>DATE</b>	<b>TIME</b>	<b>NOTES</b>
<b>DRILLING METHOD AND RIG TYPE:</b> Geoprobe 6610DT Direct Push with 5 foot 2 1/4 " O.D. Rods with PVC Liner					
<b>DEPTH (FT)</b>	<b>SAMPLE</b>				<b>GRAPHIC LOG</b>
	<b>DEPTH (FT)</b>	<b>REC. (IN.)</b>	<b>BLOWS/ 6 IN.</b>	<b>PID (PPM)</b>	
1	0-5	37	NA	0.1	3" Asphalt; Moist brown clayey silt with little gravel and rock fragments; No odors or staining
2					
3					
4					
5					
6	5-10	41	NA	0.8	Moist brown silty clay to clay with rock fragments and gravel; No odors or staining.
7					
8					
9					
10					
11	10-15	12	NA	0.0	Brown clayey silt and shale; No odors or staining; Wet @ 10 ft. Refusal encountered at 13 feet below grade surface.
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

DEEP MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b>	<b>RISER INTERVAL:</b>	<b>MANHOLE:</b>
<b>DIA. (IN.):</b>	<b>DEPTH/TYPE PACK:</b>	<b>WELL ENDCAP:</b>
<b>WELL MATERIAL:</b>	<b>DEPTH/TYPE SEAL:</b>	<b>WELL CAP:</b>
<b>SCREEN SLOT SIZE:</b>	<b>BACKFILL OVER SEAL:</b>	
<b>SCREEN INTERVAL:</b>	<b>SURFACE SEAL:</b>	
SHALLOW MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b>	<b>RISER INTERVAL:</b>	<b>MANHOLE:</b>
<b>DIA. (IN.):</b>	<b>DEPTH/TYPE PACK:</b>	<b>WELL ENDCAP:</b>
<b>WELL MATERIAL:</b>	<b>DEPTH/TYPE SEAL:</b>	<b>WELL CAP:</b>
<b>SCREEN SLOT SIZE:</b>	<b>BACKFILL OVER SEAL:</b>	
<b>SCREEN INTERVAL:</b>	<b>SURFACE SEAL:</b>	

 <b>BERNINGER ENVIRONMENTAL INC.</b> groundwater consultants and geologists 90 B Knickerbocker Avenue Bohemia, New York 11716 Phone # (631) 589-6521 Fax # (631) 589-6528		<b>PROJECT:</b> American Cleaners VCP Site # V00461-3		<b>SOIL BORING/MONITORING WELL CONSTRUCTION LOG</b>						
		<b>LOCATION:</b> Route 211, Middletown, New York <b>DATE:</b> 9/9/08 Through 9/10/08								
		<b>PROJECT NO.:</b>		<b>BORING NO.:</b> GP-3 <b>MON WELL ID:</b> MW-11 (Proposed)						
				<b>SHEET 1 OF 1</b>						
<b>BORING LOCATION:</b> Parking lot of Cheeseburger paradise				<b>LOGGED BY:</b> David Kahn						
<b>GROUND SURFACE ELEVATION:</b> NA				<b>MEASURING POINT ELEVATION:</b> NA						
<b>START TIME:</b> 2:25 <b>DATE:</b> 9/9/08				<b>DRILLING CO.:</b> Berninger Environmental Inc.						
<b>FINISH TIME:</b> <b>DATE:</b>				<b>DRILLERS NAME:</b> Jon Jefferies ; Eusi Watkins						
<b>SAMPLING METHOD:</b> Continuous soil screening				<b>GROUNDWATER OBSERVATIONS</b>						
				<b>DATE</b>	<b>TIME</b>					
				<b>DEPTH</b>	<b>CASING</b>					
				<b>NOTES</b>						
<b>DRILLING METHOD AND RIG TYPE:</b> Geoprobe 6610DT Direct Push with 5 foot 21/4 " O.D. Rods with PVC Liner										
<b>DEPTH (FT)</b>	<b>SAMPLE</b>				<b>GRAPHIC LOG</b>	<b>MATERIAL DESCRIPTION</b>	<b>WELL DIAGRAM</b>			
	<b>DEPTH (FT)</b>	<b>REC. (IN.)</b>	<b>BLOWS/ 6 IN.</b>	<b>PID (PPM)</b>						
1	0-5	17	NA	0.0		Grass and topsoil; Fill material; silt with some rocks and gravel; No odors or staining; dry				
2										
3										
4										
5	5-10	27	NA	0.9		Fill material; concrete, silt, gravel and rock fragments; No odors or staining; moist				
6										
7										
8										
9	10-15	36	NA	0.0		Fill material; No odors or staining; Moist				
10										
11										
12										
13	15-20	54	NA	0.0		Wet brown gravelly clay to 19.9 ft; rest is moist dense grey till; No odors or staining				
14										
15										
16										
17	20-25	42	NA	0.0		Dense grey till; No odors or staining; Slightly moist				
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
<b>DEEP MONITORING WELL CONSTRUCTION DETAILS</b>										
<b>DEPTH (FT):</b>		<b>RISER INTERVAL:</b>				<b>MANHOLE:</b>				
<b>DIA. (IN.):</b>		<b>DEPTH/TYPE PACK:</b>				<b>WELL ENDCAP:</b>				
<b>WELL MATERIAL:</b>		<b>DEPTH/TYPE SEAL:</b>				<b>WELL CAP:</b>				
<b>SCREEN SLOT SIZE:</b>		<b>BACKFILL OVER SEAL:</b>								
<b>SCREEN INTERVAL:</b>		<b>SURFACE SEAL:</b>								
<b>SHALLOW MONITORING WELL CONSTRUCTION DETAILS</b>										
<b>DEPTH (FT):</b>		<b>RISER INTERVAL:</b>				<b>MANHOLE:</b>				
<b>DIA. (IN.):</b>		<b>DEPTH/TYPE PACK:</b>				<b>WELL ENDCAP:</b>				
<b>WELL MATERIAL:</b>		<b>DEPTH/TYPE SEAL:</b>				<b>WELL CAP:</b>				
<b>SCREEN SLOT SIZE:</b>		<b>BACKFILL OVER SEAL:</b>								
<b>SCREEN INTERVAL:</b>		<b>SURFACE SEAL:</b>								


 <b>BERNINGER ENVIRONMENTAL INC.</b> groundwater consultants and geologists 90 B Knickerbocker Avenue Bohemia, New York 11716 Phone # (631) 589-6521 Fax # (631) 589-6528		<b>PROJECT:</b> American Cleaners VCP Site # V00461-3		<b>SOIL BORING/MONITORING WELL CONSTRUCTION LOG</b>	
		<b>LOCATION:</b> Route 211, Middletown, New York <b>DATE:</b> 9/9/08 Through 9/10/08			
		<b>PROJECT NO.:</b>		<b>BORING NO.:</b> GP-4	
				<b>MON WELL ID:</b> MW-12 (Proposed)	
				<b>SHEET 1 OF 1</b>	
<b>BORING LOCATION:</b> Parking lot of Cheeseburger paradise			<b>LOGGED BY:</b> David Kahn		
<b>GROUND SURFACE ELEVATION:</b> NA			<b>MEASURING POINT ELEVATION:</b> NA		
<b>START TIME:</b> 3:00 <b>DATE:</b> 9/9/08			<b>DRILLING CO.:</b> Berninger Environmental Inc.		
<b>FINISH TIME:</b> <b>DATE:</b>			<b>DRILLERS NAME:</b> Jon Jefferies ; Eusi Watkins		
<b>SAMPLING METHOD:</b> Continuous soil screening			<b>GROUNDWATER OBSERVATIONS</b>		
			<b>DATE</b>	<b>TIME</b>	<b>DEPTH</b>
			<b>CASING</b>	<b>NOTES</b>	
<b>DRILLING METHOD AND RIG TYPE:</b> Geoprobe 6610DT					
Direct Push with 5 foot 2 1/4 " O.D. Rods with PVC Liner					
<b>DEPTH (FT)</b>	<b>SAMPLE</b>				<b>GRAPHIC LOG</b>
	<b>DEPTH (FT)</b>	<b>REC. (IN.)</b>	<b>BLOWS/ 6 IN.</b>	<b>PID (PPM)</b>	
1	0-5	26	NA	0.2	Fill material; mulch, brown silt with rock fragments and gravel; No odor or staining; Dry
2					
3					
4					
5	5-10	37	NA	1.0	Fill material consisting of asphalt, rock fragments, brick, silt; No odors or staining; moist
6					
7					
8					
9	10-15	31	NA	0.0	Fill material to 14 ft; Brown clayey silt to clay at 14-15 ft. No odors or staining; moist.
10					
11					
12					
13	15-20	32	NA	0.0	Brown gravelly clay; No odors or staining; Wet @ 20 ft.
14					
15					
16					
17	20-25	40	NA	0.8	Wet brown clay to 23.8 ft; Rest is moist dense grey till; No odors or staining.
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

DEEP MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b>	<b>RISER INTERVAL:</b>	<b>MANHOLE:</b>
<b>DIA. (IN.):</b>	<b>DEPTH/TYPE PACK:</b>	<b>WELL ENDCAP:</b>
<b>WELL MATERIAL:</b>	<b>DEPTH/TYPE SEAL:</b>	<b>WELL CAP:</b>
<b>SCREEN SLOT SIZE:</b>	<b>BACKFILL OVER SEAL:</b>	
<b>SCREEN INTERVAL:</b>	<b>SURFACE SEAL:</b>	
SHALLOW MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b>	<b>RISER INTERVAL:</b>	<b>MANHOLE:</b>
<b>DIA. (IN.):</b>	<b>DEPTH/TYPE PACK:</b>	<b>WELL ENDCAP:</b>
<b>WELL MATERIAL:</b>	<b>DEPTH/TYPE SEAL:</b>	<b>WELL CAP:</b>
<b>SCREEN SLOT SIZE:</b>	<b>BACKFILL OVER SEAL:</b>	
<b>SCREEN INTERVAL:</b>	<b>SURFACE SEAL:</b>	


 <b>BERNINGER ENVIRONMENTAL INC.</b> groundwater consultants and geologists 90 B Knickerbocker Avenue Phone # (631) 589-6521 Bohemia, New York 11716 Fax # (631) 589-6528		<b>PROJECT:</b> American Cleaners VCP Site # V00461-3 <b>LOCATION:</b> Route 211, Middletown, New York <b>DATE:</b> 9/9/08 Through 9/10/08		<b>SOIL BORING/MONITORING WELL CONSTRUCTION LOG</b>  <b>BORING NO.:</b> GP-5 <b>MON WELL ID:</b> MW-13 (Proposed)			
<b>PROJECT NO.:</b>		<b>SHEET 1 OF 1</b>					
<b>BORING LOCATION:</b> North of American Cleaners			<b>LOGGED BY:</b> David Kahn				
<b>GROUND SURFACE ELEVATION:</b> NA			<b>MEASURING POINT ELEVATION:</b> NA				
<b>START TIME:</b> 12:00 <b>DATE:</b> 9/10/08			<b>DRILLING CO.:</b> Berninger Environmental Inc.				
<b>FINISH TIME:</b> <b>DATE:</b>			<b>DRILLERS NAME:</b> Jon Jefferies ; Eusi Watkins				
<b>SAMPLING METHOD:</b> Continuous soil screening			<b>GROUNDWATER OBSERVATIONS</b>				
			<b>DATE</b>	<b>TIME</b>	<b>NOTES</b>		
<b>DRILLING METHOD AND RIG TYPE:</b> Geoprobe 6610DT Direct Push with 5 foot 2 1/4 " O.D. Rods with PVC Liner							
<b>DEPTH (FT)</b>	<b>SAMPLE</b>				<b>GRAPHIC LOG</b>	<b>MATERIAL DESCRIPTION</b>	<b>WELL DIAGRAM</b>
	<b>DEPTH (FT)</b>	<b>REC. (IN.)</b>	<b>BLOWS/ 6 IN.</b>	<b>PID (PPM)</b>			
1	0-5	24	NA	0.0		3" Asphalt; Brown clayey silt; No odors or staining; Dry	
2							
3							
4							
5	5-10	12	NA	2.2		Brown gravelly clayey silt to clay; No odors or staining; Wet @ 7 ft.	
6							
7							
8							
9	10-15	29	NA	0.6		17" Brown gravelly clayey silt - wet ; 12" Dense grey till- moist; No odors or staining; Refusal hit at 14 feet below grade surface.	
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DEEP MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b>	<b>RISER INTERVAL:</b>	<b>MANHOLE:</b>
<b>DIA. (IN.):</b>	<b>DEPTH/TYPE PACK:</b>	<b>WELL ENDCAP:</b>
<b>WELL MATERIAL:</b>	<b>DEPTH/TYPE SEAL:</b>	<b>WELL CAP:</b>
<b>SCREEN SLOT SIZE:</b>	<b>BACKFILL OVER SEAL:</b>	
<b>SCREEN INTERVAL:</b>	<b>SURFACE SEAL:</b>	

SHALLOW MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b>	<b>RISER INTERVAL:</b>	<b>MANHOLE:</b>
<b>DIA. (IN.):</b>	<b>DEPTH/TYPE PACK:</b>	<b>WELL ENDCAP:</b>
<b>WELL MATERIAL:</b>	<b>DEPTH/TYPE SEAL:</b>	<b>WELL CAP:</b>
<b>SCREEN SLOT SIZE:</b>	<b>BACKFILL OVER SEAL:</b>	
<b>SCREEN INTERVAL:</b>	<b>SURFACE SEAL:</b>	

 <b>BERNINGER ENVIRONMENTAL INC.</b> groundwater consultants and geologists 90 B Knickerbocker Avenue Phone # (631) 589-6521 Bohemia, New York 11716 Fax # (631) 589-6528		<b>PROJECT:</b> American Cleaners VCP Site # V00461-3 <b>LOCATION:</b> Route 211, Middletown, New York <b>DATE:</b> 9/9/08 Through 9/10/08		<b>SOIL BORING/MONITORING WELL CONSTRUCTION LOG</b>  <b>BORING NO.:</b> GP-6 <b>MON WELL ID:</b> MW-14 (Proposed)				
		<b>PROJECT NO.:</b>		<b>SHEET 1 OF 1</b>				
<b>BORING LOCATION:</b> North of American Cleaners			<b>LOGGED BY:</b> David Kahn					
<b>GROUND SURFACE ELEVATION:</b> NA			<b>MEASURING POINT ELEVATION:</b> NA					
<b>START TIME:</b> 1:15 <b>DATE:</b> 9/10/08			<b>DRILLING CO.:</b> Berninger Environmental Inc.					
<b>FINISH TIME:</b> <b>DATE:</b>			<b>DRILLERS NAME:</b> Jon Jefferies ; Eusi Watkins					
<b>SAMPLING METHOD:</b> Continuous soil screening			<b>GROUNDWATER OBSERVATIONS</b>					
			<b>DATE</b>	<b>TIME</b>	<b>NOTES</b>			
<b>DRILLING METHOD AND RIG TYPE:</b> Geoprobe 6610DT Direct Push with 5 foot 2 1/4 " O.D. Rods with PVC Liner								
<b>DEPTH (FT)</b>	<b>SAMPLE</b>				<b>GRAPHIC LOG</b>	<b>MATERIAL DESCRIPTION</b>	<b>WELL DIAGRAM</b>	
	<b>DEPTH (FT)</b>	<b>REC. (IN.)</b>	<b>BLOWS/ 6 IN.</b>	<b>PID (PPM)</b>				
1	0-5	23	NA	5.1		3" Asphalt; Brown silt and clayey silt; some rock fragments; No odors or staining; dry		
2								
3								
4								
5	5-10	25	NA	10.0		Brown gravelly clayey silt to clay; No odors or staining; Wet @ 8 ft.		
6								
7								
8								
9	10-15	23	NA	4.2		Brown clayey silt; No odors or staining; wet		
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
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27								
28								
29								
30								

DEEP MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b>	<b>RISER INTERVAL:</b>	<b>MANHOLE:</b>
<b>DIA. (IN.):</b>	<b>DEPTH/TYPE PACK:</b>	<b>WELL ENDCAP:</b>
<b>WELL MATERIAL:</b>	<b>DEPTH/TYPE SEAL:</b>	<b>WELL CAP:</b>
<b>SCREEN SLOT SIZE:</b>	<b>BACKFILL OVER SEAL:</b>	
<b>SCREEN INTERVAL:</b>	<b>SURFACE SEAL:</b>	
SHALLOW MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b>	<b>RISER INTERVAL:</b>	<b>MANHOLE:</b>
<b>DIA. (IN.):</b>	<b>DEPTH/TYPE PACK:</b>	<b>WELL ENDCAP:</b>
<b>WELL MATERIAL:</b>	<b>DEPTH/TYPE SEAL:</b>	<b>WELL CAP:</b>
<b>SCREEN SLOT SIZE:</b>	<b>BACKFILL OVER SEAL:</b>	
<b>SCREEN INTERVAL:</b>	<b>SURFACE SEAL:</b>	

 <b>BERNINGER ENVIRONMENTAL INC.</b> groundwater consultants and geologists 90 B Knickerbocker Avenue Phone # (631) 589-6521 Bohemia, New York 11716 Fax # (631) 589-6528		<b>PROJECT:</b> American Cleaners VCP Site # V00461-3 <b>LOCATION:</b> Route 211, Middletown, New York <b>DATE:</b> 9/9/08 Through 9/10/08		<b>SOIL BORING/MONITORING WELL CONSTRUCTION LOG</b>  <b>BORING NO.:</b> GP-7 <b>MON WELL ID:</b> MW-15 (Proposed)				
		<b>PROJECT NO.:</b>		<b>SHEET 1 OF 1</b>				
<b>BORING LOCATION:</b> East of American Cleaners			<b>LOGGED BY:</b> David Kahn					
<b>GROUND SURFACE ELEVATION:</b> NA			<b>MEASURING POINT ELEVATION:</b> NA					
<b>START TIME:</b> 1:30 <b>DATE:</b> 9/10/08			<b>DRILLING CO.:</b> Berninger Environmental Inc.					
<b>FINISH TIME:</b> <b>DATE:</b>			<b>DRILLERS NAME:</b> Jon Jefferies ; Eusi Watkins					
<b>SAMPLING METHOD:</b> Continuous soil screening			<b>GROUNDWATER OBSERVATIONS</b>					
			<b>DATE</b>	<b>TIME</b>	<b>NOTES</b>			
<b>DRILLING METHOD AND RIG TYPE:</b> Geoprobe 6610DT Direct Push with 5 foot 2 1/4 " O.D. Rods with PVC Liner								
<b>DEPTH (FT)</b>	<b>SAMPLE</b>				<b>GRAPHIC LOG</b>	<b>MATERIAL DESCRIPTION</b>	<b>WELL DIAGRAM</b>	
	<b>DEPTH (FT)</b>	<b>REC. (IN.)</b>	<b>BLOWS/ 6 IN.</b>	<b>PID (PPM)</b>				
1	0-5	30	NA	0.0		4" Asphalt; Brown gravelly clayey silt and silty sand; No odors or staining; Dry		
2								
3								
4								
5	5-10	38	NA	0.0		Brown clayey silt with some rock fragments; No odors or staining; Moist		
6								
7								
8								
9	10-15	13	NA	0.2		Brown silty clay with rock fragments and fine gravel; No odor or staining; Dry; Refusal encountered at 13 feet below grade surface.		
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
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28								
29								
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DEEP MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b>	<b>RISER INTERVAL:</b>	<b>MANHOLE:</b>
<b>DIA. (IN.):</b>	<b>DEPTH/TYPE PACK:</b>	<b>WELL ENDCAP:</b>
<b>WELL MATERIAL:</b>	<b>DEPTH/TYPE SEAL:</b>	<b>WELL CAP:</b>
<b>SCREEN SLOT SIZE:</b>	<b>BACKFILL OVER SEAL:</b>	
<b>SCREEN INTERVAL:</b>	<b>SURFACE SEAL:</b>	
SHALLOW MONITORING WELL CONSTRUCTION DETAILS		
<b>DEPTH (FT):</b>	<b>RISER INTERVAL:</b>	<b>MANHOLE:</b>
<b>DIA. (IN.):</b>	<b>DEPTH/TYPE PACK:</b>	<b>WELL ENDCAP:</b>
<b>WELL MATERIAL:</b>	<b>DEPTH/TYPE SEAL:</b>	<b>WELL CAP:</b>
<b>SCREEN SLOT SIZE:</b>	<b>BACKFILL OVER SEAL:</b>	
<b>SCREEN INTERVAL:</b>	<b>SURFACE SEAL:</b>	

<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW21		Date Started: 11/09/09		
				Sheet 1 of 2		Date Finished: 11/09/09		
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe				
Project Manager: K. J. Beinkafner		Drilling Co: Todd J. Syska, Inc. Geologist: K.J. Beinkafner		Driller: Todd Drill Rig: Geoprobe		Weather:		
45" Samples/ 4ft								
Depth (ft.)	No.	Depth (feet)	Recovery (inches)	Sample Description	PID ppm	Well Details	Groundwater and Other Observations	
	1	0-4	28	0-2' Blacktop	0.0		FlushMountTop Concrete	
				0.4-2.6' Wet yell brown sand & rock frags				
2				2.6-4' Dry yell brown silty clay	0.0			0-3.5' Sch40 PVC 1" ID Riser
4								1-5.5' #00 Sand
6	2	4-8		4-5.6' Wet yell brown sand & rock frags	0.0			3.5-5.5' 1" ID Screen PVC
				5.6-8' Dry gray brown silty clay with rock frags, wrinkled beds	0.0			Sch40 slot=0.01"
								Bottom Plug
8								
10		8-12		End of Boring = 8 feet				
				Note on Monitoring Well Construction: No bentonite seal was installed. Sand was placed in the annular space to allow recharge from precipitation to enter the well to guage the rate of surface infiltration.				
12								
14		12-16						
16								
		16-20						

Sample Types:

S=Split Spoon:      T= Shelby Tube: \_\_\_\_\_

R= Rock Core:        O = 2 ft contiuous sampler

N = ASTM D1586

Backfill Well Key

	Cement		Fine Sand
	Sand		Bentonite

<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW22		Date Started: 11/09/09	
				Sheet 1 of 1		Date Finished: 11/09/09	
Client: American Cleaners Location: Caldor Plaza, Middletown, NY							
Project Manager: K. J. Beinkafner		Drilling Co: Todd J. Syska, Inc. Geologist: K.J. Beinkafner		Driller: Todd Drill Rig: Geoprobe		Weather:	
45" Samples/ 4ft							
Depth (ft.)	No.	Depth (feet)	Recovery (inches)	Sample Description	PID ppm	Well Details	Groundwater and Other Observations
2	1	0-4	26	0-0.8' topsoil, clay & silt, roots, twigs	2.5		Stickup~3 ft 5' steel casing 4" diameter  2-6' Bentonite  0-8' Sch40 PVC 1" ID Riser  6-13.5' #00 Sand  8-13' 1" ID Screen PVC Sch40 slot=0.01"  Bottom Plug
		0-0.5'	sample	0.8-1.1' brown soil & rock frags			
				1.1-1.7' yell brown silt & rock frags			
				1.7-1.8 Rock channer			
4				1.8-3.7' Damp yell brown silt & rock frags with wrinkled beds	0.0		
				3.7-4' Dk brown topsoil, silty clay, roots			
6	2	4-8	30.0	4-4.26' Yell brown topsoil, brick frags	0.0		
				FILL to at least 4.26 feet			
				4.26-6.5' Moist, compact yell brown silt some rock frags			
8				6.5-8' Damp, very compact, dark yell brown silt	0.0		
10	3	8-12	38	8-9.7' Dry yell brown silty clay, wrinkled beds	0.0		
				9.7-10.7 Rock Channer			
12				10.7-12' Saturated soupy yello brown silty clay with some gravel size rock frags	0.0		
14	4	12-13.5	29	soupy at top of core			
				12-13.5' Damp yellow brown silty clay			
End of Boring = 13.5 Feet							
16							

Sample Types:

S=Split Spoon:      T= Shelby Tube: \_\_\_\_\_

R= Rock Core:      O = 2 ft contiuous sampler

N = ASTM D1586

Backfill Well Key

	Cement		Fine Sand
	Sand		Bentonite



<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW24		Date Started: 11/12/09																																																																																																																																																															
				Sheet 1 of 2		Date Finished: 11/12/09																																																																																																																																																															
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe																																																																																																																																																																	
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<table border="1"> <thead> <tr> <th colspan="4">45" Samples/ 4ft</th> <th rowspan="2">Sample Description</th> <th rowspan="2">PID ppm</th> <th rowspan="2">Well Details</th> <th rowspan="2">Groundwater and Other Observations</th> </tr> <tr> <th>Depth (ft.)</th> <th>No.</th> <th>Depth (feet)</th> <th>Recovery (inches)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">2</td> <td>1</td> <td>0-4</td> <td>31</td> <td>0-0.5' Dry compost &amp; sand FILL transition 0.7-4' Dry brown gray silt &amp; sand FILL wrinkled beds</td> <td>0.0</td> <td rowspan="16"> </td> <td rowspan="16">           FlushMountTop Concrete   2-11' Bentonite  0-14' Sch40 PVC 1" ID Riser          11-24' #00 Sand   14-24' 1" ID Screen PVC Sch40 slot=0.01"         </td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td rowspan="3">4</td> <td></td> <td></td> <td></td> <td></td> <td>0.0</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td rowspan="3">6</td> <td>2</td> <td>4-8</td> <td>43</td> <td>0-5.9' Dry yell brown silt, some rock frags Channers @ 5.2' &amp; 6' 5.9-6.6' Damp soft brown silty clay 6.6-7' Dry subcompact, friable brown sand &amp; rock fragments</td> <td>0.0</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td rowspan="3">8</td> <td></td> <td></td> <td></td> <td>7-7.8' Dry subcompact graybrown f sand, silt, rock fragments 7.8-8' Blacktop</td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td rowspan="3">10</td> <td>3</td> <td>8-12</td> <td>29</td> <td>8-8.6' Dry loose gray brown f sand, silt rxf 8.6-10.8' Fry yell gray f sand &amp; rock frags 10.8-11.4' Dry dk brown f sand &amp; rock frags 11.4-11.9' Damp yell brown silt 11.9-12' Wet loose brown sand</td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td rowspan="3">12</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td rowspan="3">14</td> <td>4</td> <td>12-16</td> <td>33</td> <td>12-13' Moist brown f-m sand &amp; rock frags 13-13.4 Blacktop dry FILL to at least 13.4' 13.4-14.4' Damp granular loose sand &amp; rock frags</td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td rowspan="3">16</td> <td></td> <td>14</td> <td>sample</td> <td>14.4-15' Damp soft gray silty clay 15-16' Damp compact yell brown silt</td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td rowspan="3"></td> <td>5</td> <td>16-20</td> <td>29</td> <td>16-16.4' Damp soft yell gray silt 16.4-17.4' Dry loose gray brown sand &amp; r frags</td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>								45" Samples/ 4ft				Sample Description	PID ppm	Well Details	Groundwater and Other Observations	Depth (ft.)	No.	Depth (feet)	Recovery (inches)	2	1	0-4	31	0-0.5' Dry compost & sand FILL transition 0.7-4' Dry brown gray silt & sand FILL wrinkled beds	0.0		FlushMountTop Concrete   2-11' Bentonite  0-14' Sch40 PVC 1" ID Riser          11-24' #00 Sand   14-24' 1" ID Screen PVC Sch40 slot=0.01"											4					0.0											6	2	4-8	43	0-5.9' Dry yell brown silt, some rock frags Channers @ 5.2' & 6' 5.9-6.6' Damp soft brown silty clay 6.6-7' Dry subcompact, friable brown sand & rock fragments	0.0											8				7-7.8' Dry subcompact graybrown f sand, silt, rock fragments 7.8-8' Blacktop												10	3	8-12	29	8-8.6' Dry loose gray brown f sand, silt rxf 8.6-10.8' Fry yell gray f sand & rock frags 10.8-11.4' Dry dk brown f sand & rock frags 11.4-11.9' Damp yell brown silt 11.9-12' Wet loose brown sand												12																14	4	12-16	33	12-13' Moist brown f-m sand & rock frags 13-13.4 Blacktop dry FILL to at least 13.4' 13.4-14.4' Damp granular loose sand & rock frags												16		14	sample	14.4-15' Damp soft gray silty clay 15-16' Damp compact yell brown silt													5	16-20	29	16-16.4' Damp soft yell gray silt 16.4-17.4' Dry loose gray brown sand & r frags											
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<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW24		Date Started: 11/12/09	
				Sheet 2 of 2		Date Finished: 11/12/09	
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe			
Project Manager: K.J. Beinkanfer		Drilling Co: Todd J. Syska, Inc. Geologist: K.J. Beinkafner		Driller: Todd Drill Rig: Geoprobe		Weather:	
45" Samples/ 4ft							
Depth (ft.)	No.	Depth (feet)	Recovery (inches)	Sample Description	PID ppb	Well Details	Groundwater and Other Observations
18				17.4-20' Damp subcompact soft yell brown silt	0.0		14-24' 1" ID Screen PVC Sch40 slot=0.01"
20					0.0		
	6	20-24	45	20-20.4' Saturated yell brown silt & gray rock fragments			
				20.4-21.1' Saturated ywll brown silt			
22				rock frags increasing downward	0.0		
				21.1-23.4' Dry compact yell brown silt			
				23.4-24' Damp plastic gray clay			
24							
				End of Boring = 24 feet			
26							
28							Bottom Plug
30							
32							
34							
Sample Types: S=Split Spoon:      T= Shelby Tube: _____ R= Rock Core:        O = 2 ft contiuous sampler				Backfill Well Key Cement     Fine Sand Sand       Bentonite			

<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW25		Date Started: 11/10/09							
				Sheet 1 of 1		Date Finished: 11/10/09							
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe									
Project Manager: K. J. Beinkafner		Drilling Co: Todd J. Syska, Inc. Geologist: K.J. Beinkafner		Driller: Todd Drill Rig: Geoprobe		Weather:							
45" Samples/ 4ft													
Depth (ft.)	No.	Depth (feet)	Recovery (inches)	Sample Description	PID ppm	Well Details	Groundwater and Other Observations						
2	1	0-4	41	0-0.2' Black top	0.0		FlushMountTop Concrete						
				0.21-0.45' Moist dk gray-black sand									
				0.45-3.7' Damp silt & clay some rock frags									
				Rock channers @ 2' & 2.4"									
4				3.7-4' Damp dk gray brown clay, slightly silty	0.0				1-2.5' Bentonite				
6	2	4-8	36.0	4-4.5' Damp yell-brown-gray silt, wrinkled beds	0.0						0-5' Sch40 PVC 1" ID Riser		
				4.5-4.9' Compact yell-brown-gray silty slay									
				4.9-5.1' Dark gray rock channer									
				5.1-5.5' Damp yell-brown gray silt									
8				5.5-8' Yell brown sandy silt, trace clay	0.0								2.5-15' #00 Sand
				Rock channer @ 7.5'									
10	3	8-12	42	8-9.3' Saturated soupy loose sand, silt, rx frags			3.5-8.5' 1" ID Screen PVC Sch40 slot=0.01"						
				9.3-10.9' Moist subcompact sand, silt, rx frags									
				10.9-11.6' Damp compact sand, silt rx frags									
				11.6-12' White rock channer, Shawangunk Cong									
12									Bottom Plug				
14	4	12-16	23	12-13.6' Soupy rock frags									
				w yell brown sand & silt									
				13.4-14.6' Wet yell brown clayey silt									
				14.6-15.5' Damp gray silty clay									
16				End of Boring = 15.2 feet									
Sample Types:				Backfill Well Key									
S=Split Spoon: T= Shelby Tube: _____				Cement  Fine Sand									
R= Rock Core: O = 2 ft contiuous sampler				Sand  Bentonite									
N = ASTM D1586													

<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW26		Date Started: 11/10/09		
				Sheet 1 of 1		Date Finished: 11/10/09		
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe				
Project Manager: K. J. Beinkafner		Drilling Co: Todd J. Syska, Inc. Geologist: K.J. Beinkafner		Driller: Todd Drill Rig: Geoprobe		Weather:		
45" Samples/ 4ft								
Depth (ft.)	No.	Depth (feet)	Recovery (inches)	Sample Description	PID ppm	Well Details	Groundwater and Other Observations	
2	1	0-4	36	0.2-0.7' Moist dk brown gray sand	0.0		FlushMountTop Concrete	
				0.7-3.2' Dk yell gray clayey silt			1-3' Bentonite	
				3.2-3.3' Rock channer				
				3.3-4' Gray green silty clay	0.0		2-3' Sch40 PVC 1" ID Riser	
4								
6	2	4-8	32.0	4-4.3' Dry yell gray silt, wrinkled beds	0.0			3-14' #00 Sand
				4.3-4.7' Rock channers & dk gray clay				
				4.7-6.9' Damp soft yell brown silt mottled w red-yell iron staining				4-14' 1" ID Screen PVC Sch40 slot=0.01"
				6.9-8' Wet compact yell brown silt w large rock fragments	0.0			
8								
10	3	8-12	40	8-10.5' Soupy silt & rock frags				
				10.5-12' Dry yell brown silty clay				
12								
14	4	12-14	22	12-14' Yell brown silt w few rock frags soft at top, compact at bottom				
16				Refusal at 14 feet				

Sample Types:

S=Split Spoon:      T= Shelby Tube: \_\_\_\_\_

R= Rock Core:        O = 2 ft contiuous sampler

N = ASTM D1586

Backfill Well Key

	Cement		Fine Sand
	Sand		Bentonite

<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW28		Date Started: 11/12/09	
				Sheet 1 of 1		Date Finished: 11/12/09	
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe			
Project Manager: K. J. Beinkafner		Drilling Co: Todd J. Syska, Inc. Geologist: K.J. Beinkafner		Driller: Todd Drill Rig: Geoprobe		Weather:	
45" Samples/ 4ft							
Depth (ft.)	No.	Depth (feet)	Recovery (inches)	Sample Description	PID ppm	Well Details	Groundwater and Other Observations
2	1	0-4	30	0-0.7' Wet dk brown sand	0.0		FlushMountTop Concrete
				0.7-4' Dry yell brown silt w gravel-size rock frags, wrinkled bedding			
4					0.0	2-7.5' Bentonite	
6	2	4-8	30	4-4.7' Sticky wet silt, clay, rock frags	0.0	0-9.5' Sch40 PVC 1" ID Riser	
		4.5	sample	4.7-5.1' Damp gray stained, sandy & silty clay petroleum odor			
				5.1-5.5' Damp, soft gray clay			
8				5.5-8' Dry yell brown silt	0.0		
10	3	8-12	34	8-8.3' Wet sticky yell gray sand, silt & clay		7.5-14.5' #00 Sand	
				8.3-8.7' Wet gray clay			
				8.7-10.8' Dry yell brown silty clay w sand & rxf			
12				10.8-12' Saturated sopupy sand, silt & rock frags		9.5-14.5' 1" ID Screen PVC Sch40 slot=0.01"	
14	4	12-16	45	12-12.7' Saturated sticky brown silt & vc sand		Bottom Plug	
				12.7-14' Saturated soupy yell brown silt & sand			
				14-14.4' Saturated yell brown silt			
16				14.4-15.6' Damp yell brown silt			
				15.6-16' Dry gray clay			
	5	16-20		End of Boring = 16 feet			

Sample Types:		Backfill Well Key	
S=Split Spoon:	T= Shelby Tube:		Cement
R= Rock Core:	O = 2 ft contiuous sampler		Sand
			Fine Sand
			Bentonite

N = ASTM D1586

<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW30 Dumpster Boring D4 Sheet 1 of 1		Date Started: 11/09/09  Date Finished: 11/09/09	
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe			
Project Manager: K. J. Beinkafner		Drilling Co: Todd J. Syska, Inc. Geologist: K.J. Beinkafner		Driller: Todd Drill Rig: Geoprobe		Weather:	
45" Samples/ 4ft							
Depth (ft.)	No.	Depth (feet)	Recovery (inches)	Sample Description	PID ppm	Well Details	Groundwater and Other Observations
2	1	0-4	43	0-.3' Blacktop and dry crushed stone	0.0		FlushMountTop Concrete 1-2.5' Bentonite 0-3.5' Sch40 PVC 1" ID Riser 2.5-8.5' #00 Sand 3.5-8.5' 1" ID Screen PVC Sch40 slot=0.01" Bottom Plug
				0.3-0.9 Damp reddish brown sand			
				0.9-1', 2.4-2.9', 3.3-3.4' Buff rock channer			
				1-1.4' Moist dk brown sand & rock frags			
4				1.4-2.4' yellow silt & rock frags, wrinkled beds	0.0		
				2.9-3.3' Moist red brwon silt & sand			
				3.4-4.0' yellow brown silt & sand			
6	2	4-8.5	34.0	4-4.6' Damp loose brown sand	0.0		
				4.6-4.7' Rock channer			
		5.8-5.9'	sample	4.7-6' Damp compact yellow brown silt			
				6-6.1' Same silt with wrinkled beds	0.0		
8				6.1-6.5' Yellow brown silt, sand, rock frags			
10				6.5-8.5' Wet compact silt with few rock frags			
				End of Boring = 8.5 feet			
12							
14							
16							
Sample Types: S=Split Spoon:      T= Shelby Tube: _____ R= Rock Core:        O = 2 ft contiuous sampler				Backfill Well Key Cement               Fine Sand Sand                 Bentonite			
N = ASTM D1586							

<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW31		Date Started: 11/13/09	
				Sheet 1 of 2		Date Finished: 11/13/09	
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe			
Project Manager: K. J. Beinkafner		Drilling Co: Todd J. Syska, Inc. Geologist: K.J. Beinkafner		Driller: Todd Drill Rig: Geoprobe		Weather:	

45" Samples/ 4ft				Sample Description	PID ppm	Well Details	Groundwater and Other Observations
Depth (ft.)	No.	Depth (feet)	Recovery (inches)				
2	1	0-4	23	0-2.1' Dry yell brown silt & rock frags wrinkled beds	0.0		FlushMountTop Concrete  2-11' Bentonite  0-14' Sch40 PVC 1" ID Riser            11-24' #00 Sand    14-24' 1" ID Screen PVC Sch40 slot=0.01"
				2.1-4' Moist yell brown silty clay w rock frags (gravel size)	0.0		
				FILL at least 0-13.4 feet	0.0		
6	2	4-8	32	4-4.9' Moist yell brown silty clay	0.0		
				4.9-5' Rock Channer	0.0		
				5-5.7' Dry yell brown silt w rock frags wrinkled beds	0.0		
8		5.7-6'	sample	5.7-6' as above, dk stained	0.0		
				6-6.3' Rock channer, graywacke	0.0		
				6.3-7.3' Concrete fragments	0.0		
10				7.3-8' Yell brown silt & rock frags	0.0		
	3	8-12	45	8-8.3' Dry concrete fragments	0.0		
				8.3-9.3' Dry yell brown silt & rock frags	0.0		
12				9.3-9.4' Rock channer	0.0		
				9.4-11' Damp dk brown sand & silt, sm rx frgs	0.0		
				11-11.2' Weathered Blacktop	0.0		
14				11.2-11.6' Dry Compact lt tan-gray silty clay	0.0		
				11.6-11.8' Dry graty clay	0.0		
				11.8-12' Dry yell brown silt,f sand, rock frags	0.0		
16	4	12-16	35	12-13' Damp soft dk gray brwon silt, sand, clay	0.0		
				13-13.4' White rock channer	0.0		
				13.4-13.7' Damp yell brown sandy silt, trace clay	0.0		
16				13.7-14' Rock channer, graywacke	0.0		
				14-16' Damp yell brown silty clay	0.0		
					0.0		
	5	16-20	40	16-17.2' Saturated brown gray sand			
				17.2-17.5' Moist yell brown silty clay			
				17.5-19.4' Wet dk br sand & rock frags			

Sample Types:

S=Split Spoon:      T= Shelby Tube: \_\_\_\_\_

R= Rock Core:      O = 2 ft contiuous sampler

N = ASTM D1586

Backfill Well Key

	Cement		Fine Sand
	Sand		Bentonite



<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW31		Date Started: 11/13/09	
				Sheet 2 of 2		Date Finished: 11/13/09	
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe			
Project Manager: K.J. Beinkanfer		Drilling Co: Todd J. Syska, Inc. Geologist: K.J. Beinkafner		Driller: Todd Drill Rig: Geoprobe		Weather:	
45" Samples/ 4ft							
Depth (ft.)	No.	Depth (feet)	Recovery (inches)	Sample Description	PID ppm	Well Details	Groundwater and Other Observations
18				19.4-19.8' Moist yell br silt			14-24' 1" ID Screen PVC Sch40 slot=0.01"
				19.8-20' Saturated yell brown silt & rock frags			
20							
	6	20-24	25	20-20.5' Saturated yell gray c sand & f gravel			
				20.5-21.1' Saturated yell gray f gravel rounded w sany matrix			
22				21.1-23.4' Saturated yell brown sand w rock frags, trace silt			
				23.4-24' Dry compact yell brown silt			
24							
				End of Boring = 24 feet			
26							
28							
30							
32							
34							

Sample Types:

S=Split Spoon:      T= Shelby Tube: \_\_\_\_\_

R= Rock Core:        O = 2 ft contiuous sampler

Backfill Well Key

	Cement		Fine Sand
	Sand		Bentonite

N = ASTM D1586

<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW32 Replacement of MW28 Sheet 1 of 1		Date Started: 5/16/2017		
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe 7822DT Total Depth = 13.88 ft				
Project Manager: K. J. Beinkafner		Drilling Co: Core Down Drilling Geologist: K.J. Beinkafner		Driller: Joe Bellucci Drill Rig: Geoprobe		Weather:		
Depth (ft.)	No.	Depth (feet)	Recovery (inches)	Sample Description	PID ppb	Well Details	Groundwater and Other Observations	
2	1	0-4		MW28 was paved over and not found. Cores of sediments not taken. Within 10 feet of original well MW28 with boring log.	0.0		Flush mount road box with 1-in J-plug 2-4' Concrete 2-4' backfill sand	
					0.0			2-4'
					0.0			2-4'
4								
6	2	4-8			0.0		4-7 feet Bentonite Seal Water Table 8-9' 7-14 ft Sand	
8								
10	3	8-12					9-14 feet 1-in PVC .010 slot screen schedule 40 Water @ 13 feet	
12								
14	4	12-16		End of Boring = 14 feet			14' end cap	
16								
	5	16-20						

Sample Types:

S=Split Spoon:      T= Shelby Tube: \_\_\_\_\_

R= Rock Core:      O = 2 ft continuous sampler

N = ASTM D1586

Backfill Well Key

	Concrete		Bentonite
	Sand		

Mid-Hudson Geosciences		Subsurface Soil Boring Log		Well ID: MW33 west side of Lloyd Lane Sheet 1 of 1		Date Started: 5/16/2017  Date Finished: 5/16/2017	
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe 7822DT Total Depth = 19.43 feet			
Project Manager: K. J. Beinkafner		Drilling Co: Core Down Drilling Geologist: K.J. Beinkafner		Driller: Joe Bellucci Drill Rig: Geoprobe		Weather:	
Depth (ft.)	No.	Depth (feet)	Recovery (inches)	Sample Description	PID ppb	Well Details	Groundwater and Other Observations
	1	0-5	26	1.5-foot Fill - Topsoil, weeds, and roots 1/4-1/2-inch angular rock frags	0.0		Flush mount road box with 1-in J-plug
2				1.5-feet Fill - compact brown silt 1/4-1/2-inch angular rock frags	0.0		2-4' Concrete
				1-foot Loose 50% brown silt and 50% rock fragments			
4				1-foot Brown Clay, can be rolled into snakes 10% small rock fragments	0.0		2-9.5' backfill sand
	2	5-10	28	2-feet <u>saturated</u> friable dark gray brown clay and fine rounded gravel			0-14.5' PVC schedule 40 riser
				1-foot Fill moist compact dark brown clay			
8				2-feet dry compact/solid tan clay			water table 10.4-11.3'
	3	10-15	24	1.7-feet <u>soupy</u> med brown clay			9.5-12.5 ' Bentonite Seal
				1.7-feet moist med brown clay			
12				1.7-feet damp med brown silt & clay			12.5-19.5 sand
	4	15-20	32	2.5-feet <u>soupy</u> granular med brown silt, f sand, and gravel			14.5-19.5 feet 1-inch PVC 0.010" slot Screen
				2.5-feet wet compact tan clay <u>soupy</u> at base			
				End of boring = 19.5 feet, not to scale below 15'			19.5' end cap
Sample Types: S= Split Spoon: R= Rock Core:				T= Shelby Tube: O = 2 ft contiuous sampler			
N = ASTM D1586				Backfill Well Key concrete  Bentonite Sand  sand			

<b>Mid-Hudson Geosciences</b>		<b>Subsurface Soil Boring Log</b>		Well ID: MW34 replacement for T7 Sheet 1 of 1		Date Started: 05/16/2017  Date Finished: 05/16/2017	
Client: American Cleaners Location: Caldor Plaza, Middletown, NY				Method of Investigation: Geoprobe 7822DT Total Depth = 18.6 ft			
Project Manager: K. J. Beinkafner		Drilling Co: Coe Down Drilling Geologist: K.J. Beinkafner		Driller: Joe Bellucci Drill Rig: Geoprobe		Weather:	

Depth (ft.)	No.	Depth (feet)	Recovery (inches)	Sample Description	PID ppb	Well Details	Groundwater and Other Observations
2	1	0-5	30	2-inches Broken asphalt	0.0		Flush mount road box with 1-in J-plug 2-4' Concrete
				5-inches Dry dusty old weathered asphalt			
4				1-foot mottled brown-gray silt, clay sand rxf	0.0		2-13 ft backfill sand
				1.5-foot yellow brown silt			
6				1.5-foot damp lt tan clay	0.0		0-13.5' PVC schedule 40 riser
	2	5-10	33	2-feet moist med tan Clay and angular rxf. w stringers of gray shale gravel size rxf			
8				0.5-foot <u>saturated</u> gray shale rock fragments(rxf)			water table varies 7-10'
				0.5-foot <u>wet</u> brown silt			
10				2-feet <u>saturated</u> dk gray-brown silty clay			10-13 ft Seal of Bentonite
12	3	10-15	46	1-foot wet gray clay with 60% round pebbles			11.5-18.5' sand
				1-foot damp brown silt			
14				3-feet damp yellow-brown silt w 20% fine sand			13.5-18.5 ft
16	4	15-20	38	2-feet soupy yellow brown silt w fine gravel rock fragments (rxf)			1-inch PVC .010 slot screen schedule 40
				2-feet damp gray clay			
				End of Boring = 20 ft, not to scale below 15'			18.5' = End Cap

Sample Types:		Backfill Well Key	
S=Split Spoon:	T= Shelby Tube:		Concrete
R= Rock Core:	O = 2 ft continuous sampler		Sand
N = ASTM D1586			Bentonite
			Sand

**Appendix B-1  
Laboratory Reports  
For Soil Vapor, Soil & Groundwater Sampling  
2010 & 2012  
11 Reports Prepared by  
York Analytical Laboratories & Alpha Analytical  
for  
American Cleaners Middletown  
Orange County, New York**

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**Remedial Investigation/  
Alternative Analysis Report:  
Operable Unit #2 Groundwater  
NYSDEC Site Number: V-00461-3**

**Prepared for:**  
AMERICAN CLEANERS, Inc.

360 Route 211 East

Middletown, NY 10940

**Prepared by:**  
Jansen Engineering, PLLC  
72 Coburn Drive  
Poughkeepsie, NY 12603  
(845) 505-0324  
and  
Mid-Hudson Geosciences  
1003 Route 44/55, PO Box 32  
Clintondale, NY 12615-0032  
(845) 883-5726

**JANUARY 2018**

**Table 1**

Listing of All Laboratory Reporting for American Cleaners Middletown, NY  
Caldor Lloyds Mall, 360 Route 211 East, Middletown, NY 10940  
NYSDEC Voluntary Cleanup Program V-00461

Under direction of Jansen Engineering, PLLC and Mid-Hudson Geosciences (2010 to 2012)  
All analyses were for Volatile Organic Compounds: Soil and Water US EPA Method SW846-8260B  
Soil Vapor EPA Compendium TO14A/TO15  
Appendix Number is that for this Report, Provided on CD in both PDF and EDD. ASP-B is not included.  
York = York Analytical Laboratories, Inc. 120 Research Drive, Stratford, CT 06615  
Alpha = Alpha Analytical, 320 Forbes Boulevard, Mansfield, MA 02048-1806

Appendix Number	Program	Matrix	Location	Number of Samples/ Blanks	Date of Sampling	Laboratory	Report Identification	Final Report Date	ASP-B Report Date	Report & Table Proposed	Lab Result Table	Lab Results Map	This Report Table of Results	Map of Results
D	<u><b>Investigations</b></u>													
D	Prelim SV Pilot Test	Soil	parking lot	11/2	05/16/12	York	12E0631	05/24/12	06/11/12	N/A	Rpt1:1	R1:Fig1	13	5-15
D	Re-Evaluation													
		Soil	parking lot	14/2	07/25/12	York	12G0902	08/06/12	01/16/13	Rpt1:2,3	Rpt3:4	Here	14	5-15
		Soil	sub-slab	2/2	09/27/12	York	12J0066	10/09/12	01/23/13	Rpt1:2,3	Rpt3:5	Here	15	5-10
		Soil Vapor	parking lot	2	08/14/12 *	Alpha	L1214558	08/27/12		Rpt1:2,3	Here	Here	16	5-17
		Groundwater	downgradient	7/2	07/11/12	York	12G0446	07/27/12		Rpt1:2,3	Here	Here	17	5-18
D	RIR	Groundwater	all mon wells	25/2	01/15/10	York	10010484	01/25/10		letter	RIR:4	RIR:Fig5-5	4	5-5
D	<u><b>Remedial Actions</b></u>													
D	Remedy - VES	Soil Vapor	Building	1	08/14/12 *	Alpha	L1214558	08/27/12		Rpt1:2,3	Rpt2:p1	Rpt2:Fig1	18	5-17
			VES	1/2	09/27/12	York	12J0066	10/09/12	01/23/13	Rpt2:2	Here	Here	19	5-19g
			VES	1	10/07/12	York	12J0332	10/17/12	11/22/12	Rpt2:2	Here	Here	19	5-19g
			VES	1	11/29/12	York	12L0054	12/10/12		Rpt2:2	Here	Here	19	5-19g
D	Remedy -Backdoor	Soil -back door in parking lot		14/2	07/25/12	York	12G0902	08/06/12	01/16/13	Rpt1:2,3	Rpt3:4	Rpt2:Fig2	13,14	21
		Soil - waste classification		2	10/11/12	York	12J0483	10/16/12		N/A	Rpt3:6	Here	21	21
		Soil - excavation confirmation		7/2	11/29/12	York	12L0069	12/12/12		Rpt3:7	Here	Here	22	22

Notes: \* Same lab report represents two different sample locations and categories in this report  
Rpt1 = Remedial Investigation Work Plan: Re-Evaluation of On-Site Contaminants, June 2012, Prepared by Jansen Engineering, PLLC and Mid-Hudson Geosciences  
Rpt2 = Modification to February 7, 2012 Remedial Action Work Plan RE: Pilot Test, Design and VES Installation, September 2012, Prepared by Jansen Engineering. PLLC and Mid-Hudson Geosciences  
Rpt3 = Modification 2 for February 2012 Remedial Action Work Plan RE: Backdoor Site Excavation, October 29, 2012, prepared by Jansen Engineering, PLLC and Mid-Hudson Geosciences  
RIR = Remedial Investigation Report for American Cleaners Middletown, Caldor Lloyds Mall, 360 Route 211 East, April 10, 2010, prepared by Mid-Hudson Geosciences  
5-19g means figure 5-19 is a graph     Here means this report

# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 05/24/2012  
**Client Project ID: AC Middletown Soil NW of Bldg. May 16, 2012**  
York Project (SDG) No.: 12E0631

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440



Report Date: 05/24/2012  
Client Project ID: AC Middletown Soil NW of Bldg. May 16, 2012  
York Project (SDG) No.: 12E0631

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

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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 May 17, 2012 and listed below. The project was identified as your project: **AC Middletown Soil NW of Bldg. May 16, 2012.**

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>
12E0631-01	ACMS 1	Soil	05/16/2012	05/17/2012
12E0631-02	ACMS 2	Soil	05/16/2012	05/17/2012
12E0631-03	ACMS 3	Soil	05/16/2012	05/17/2012
12E0631-04	ACMS 4	Soil	05/16/2012	05/17/2012
12E0631-05	ACMS 5	Soil	05/16/2012	05/17/2012
12E0631-06	ACMS 6	Soil	05/16/2012	05/17/2012
12E0631-07	ACMS 7	Soil	05/16/2012	05/17/2012
12E0631-08	ACMS 8	Soil	05/16/2012	05/17/2012
12E0631-09	ACMS 9	Soil	05/16/2012	05/17/2012
12E0631-10	ACMS 10	Soil	05/16/2012	05/17/2012
12E0631-11	ACMS 11	Soil	05/16/2012	05/17/2012
12E0631-12	Trip Blank	Water	05/16/2012	05/17/2012
12E0631-13	Field Blank	Water	05/16/2012	05/17/2012

## **General Notes for York Project (SDG) No.: 12E0631**

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:** 05/24/2012

Robert Q. Bradley  
Executive Vice President / Laboratory Director

**YORK**

## Sample Information

**Client Sample ID:** ACMS 1

**York Sample ID:** 12E0631-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 12:45 pm

05/17/2012

### Volatile Organics, 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.69	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.2	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.73	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.77	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.78	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.89	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.7	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.55	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.47	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.5	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.62	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>3.6</b>	J	ug/kg dry	0.68	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.7	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.87	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.76	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.83	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.28	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>1.1</b>	J	ug/kg dry	0.47	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.60	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.89	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.87	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	41	59	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
78-93-3	<b>2-Butanone</b>	<b>6.0</b>	J	ug/kg dry	3.3	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.63	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.63	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
67-64-1	<b>Acetone</b>	<b>66</b>	B	ug/kg dry	4.0	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
71-43-2	Benzene	ND		ug/kg dry	0.62	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.78	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.6	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.80	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
75-25-2	Bromoform	ND		ug/kg dry	0.74	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.6	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS

### Sample Information

**Client Sample ID:** ACMS 1

**York Sample ID:** 12E0631-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 12:45 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg dry	0.45	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.97	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
67-66-3	Chloroform	ND		ug/kg dry	0.46	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.1	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.2	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.45	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.86	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.7	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.1	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
100-41-4	<b>Ethyl Benzene</b>	<b>1.1</b>	J	ug/kg dry	0.45	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.55	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.50	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.49	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
75-09-2	<b>Methylene chloride</b>	<b>44</b>	B	ug/kg dry	1.4	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.64	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.41	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.74	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
95-47-6	<b>o-Xylene</b>	<b>2.1</b>	J	ug/kg dry	0.64	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
1330-20-7P/M	<b>p- &amp; m- Xylenes</b>	<b>5.7</b>	J	ug/kg dry	0.71	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.32	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.67	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
100-42-5	Styrene	ND		ug/kg dry	0.55	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.59	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.67	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
108-88-3	<b>Toluene</b>	<b>1.1</b>	J	ug/kg dry	0.30	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.83	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.87	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.73	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.2	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	12	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.2	5.9	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
1330-20-7	<b>Xylenes, Total</b>	<b>7.7</b>	J	ug/kg dry	1.3	18	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 12:58	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	105 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	113 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	101 %	81.2-127								

### Sample Information

<b><u>Client Sample ID:</u></b>	<b>ACMS 1</b>	<b><u>York Sample ID:</u></b>	<b>12E0631-01</b>	
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12E0631	AC Middletown Soil NW of Bldg. May 16, 2012	Soil	May 16, 2012 12:45 pm	05/17/2012

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.2		%	0.100	0.100	1	SM 2540G	05/18/2012 17:21	05/18/2012 17:21	AA

### Sample Information

<b><u>Client Sample ID:</u></b> <b>ACMS 2</b>		<b><u>York Sample ID:</u></b> <b>12E0631-02</b>		
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12E0631	AC Middletown Soil NW of Bldg. May 16, 2012	Soil	May 16, 2012 1:00 pm	05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.75	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.3	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.79	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.83	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.85	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.96	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.8	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.60	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.51	13	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.6	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.67	13	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>7.3</b>		ug/kg dry	0.73	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.8	13	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.94	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.82	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.90	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.30	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>2.6</b>	J	ug/kg dry	0.51	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.65	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.96	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.94	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	44	64	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.3	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
78-93-3	<b>2-Butanone</b>	<b>21</b>		ug/kg dry	3.6	13	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.68	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS

### Sample Information

**Client Sample ID:** ACMS 2

**York Sample ID:** 12E0631-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 1:00 pm

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.68	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
67-64-1	Acetone	110	B	ug/kg dry	4.3	13	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
71-43-2	Benzene	ND		ug/kg dry	0.67	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.85	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.8	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.86	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
75-25-2	Bromoform	ND		ug/kg dry	0.80	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.7	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.4	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.48	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
75-00-3	Chloroethane	ND		ug/kg dry	1.1	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
67-66-3	Chloroform	ND		ug/kg dry	0.50	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.2	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.3	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.48	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.93	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.8	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.1	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
100-41-4	Ethyl Benzene	2.2	J	ug/kg dry	0.48	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.60	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.54	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.53	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
75-09-2	Methylene chloride	50	B	ug/kg dry	1.5	13	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.69	13	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.44	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
103-65-1	n-Propylbenzene	1.4	J	ug/kg dry	0.80	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
95-47-6	o-Xylene	3.9	J	ug/kg dry	0.69	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
1330-20-7P/M	p- & m- Xylenes	11	J	ug/kg dry	0.76	13	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.35	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.72	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
100-42-5	Styrene	ND		ug/kg dry	0.60	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.64	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.72	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
108-88-3	Toluene	2.0	J	ug/kg dry	0.32	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.90	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS

### Sample Information

**Client Sample ID:** ACMS 2

**York Sample ID:** 12E0631-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 1:00 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.94	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.79	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.3	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	13	13	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.3	6.4	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
1330-20-7	<b>Xylenes, Total</b>	<b>15</b>	J	ug/kg dry	1.5	19	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 13:37	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	105 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	126 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	106 %		81.2-127							

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>% Solids</b>	<b>77.9</b>		%	0.100	0.100	1	SM 2540G	05/18/2012 17:21	05/18/2012 17:21	AA

### Sample Information

**Client Sample ID:** ACMS 3

**York Sample ID:** 12E0631-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 1:15 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.67	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.2	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.71	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.74	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.76	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.85	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.6	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.53	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.46	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.4	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.59	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>3.4</b>	J	ug/kg dry	0.66	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS

### Sample Information

**Client Sample ID:** ACMS 3

**York Sample ID:** 12E0631-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 1:15 pm

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.6	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.84	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.73	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.80	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.27	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>1.2</b>	J	ug/kg dry	0.46	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.58	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.85	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.84	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	39	57	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
78-93-3	<b>2-Butanone</b>	<b>16</b>		ug/kg dry	3.2	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.61	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.61	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
67-64-1	<b>Acetone</b>	<b>100</b>	B	ug/kg dry	3.9	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
71-43-2	Benzene	ND		ug/kg dry	0.59	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.76	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.6	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.77	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
75-25-2	Bromoform	ND		ug/kg dry	0.72	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.5	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.43	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.94	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
67-66-3	Chloroform	ND		ug/kg dry	0.45	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.1	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.2	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.43	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.83	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.6	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.0	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
100-41-4	<b>Ethyl Benzene</b>	<b>1.2</b>	J	ug/kg dry	0.43	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.53	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.48	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.47	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS



### Sample Information

**Client Sample ID:** ACMS 3

**York Sample ID:** 12E0631-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 1:15 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	43	B	ug/kg dry	1.3	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.62	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.40	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.72	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
95-47-6	o-Xylene	2.1	J	ug/kg dry	0.62	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
1330-20-7P/M	p- & m- Xylenes	5.7	J	ug/kg dry	0.68	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.31	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.64	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
100-42-5	Styrene	ND		ug/kg dry	0.53	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.57	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
127-18-4	Tetrachloroethylene	3.6	J	ug/kg dry	0.64	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
108-88-3	Toluene	1.2	J	ug/kg dry	0.28	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.80	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.84	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.71	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.1	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	11	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.2	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
1330-20-7	Xylenes, Total	7.8	J	ug/kg dry	1.3	17	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:15	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	105 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	115 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	102 %	81.2-127								

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	87.2		%	0.100	0.100	1	SM 2540G	05/18/2012 17:21	05/18/2012 17:21	AA

### Sample Information

**Client Sample ID:** ACMS 4

**York Sample ID:** 12E0631-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 11:00 am

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

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

**Client Sample ID:** ACMS 4

**York Sample ID:** 12E0631-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 11:00 am

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.68	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.72	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.75	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.77	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.87	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.7	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.54	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.47	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.4	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.60	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>6.4</b>		ug/kg dry	0.67	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.7	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.86	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.74	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.82	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.28	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>2.2</b>	J	ug/kg dry	0.47	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.59	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.87	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.86	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	40	58	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
78-93-3	<b>2-Butanone</b>	<b>9.5</b>	J	ug/kg dry	3.2	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.62	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.62	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
67-64-1	<b>Acetone</b>	<b>97</b>	B	ug/kg dry	3.9	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
71-43-2	Benzene	ND		ug/kg dry	0.60	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.77	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.6	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.78	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
75-25-2	Bromoform	ND		ug/kg dry	0.73	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.6	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS

### Sample Information

**Client Sample ID:** ACMS 4

**York Sample ID:** 12E0631-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 11:00 am

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg dry	0.44	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.96	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
67-66-3	Chloroform	ND		ug/kg dry	0.45	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.1	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.44	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.84	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.7	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.0	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
100-41-4	<b>Ethyl Benzene</b>	<b>2.0</b>	J	ug/kg dry	0.44	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.54	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.49	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.48	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
75-09-2	<b>Methylene chloride</b>	<b>43</b>	B	ug/kg dry	1.3	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.63	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.40	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
103-65-1	<b>n-Propylbenzene</b>	<b>1.2</b>	J	ug/kg dry	0.73	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
95-47-6	<b>o-Xylene</b>	<b>3.8</b>	J	ug/kg dry	0.63	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
1330-20-7P/M	<b>p- &amp; m- Xylenes</b>	<b>10</b>	J	ug/kg dry	0.69	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.31	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.65	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
100-42-5	Styrene	ND		ug/kg dry	0.54	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.58	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>1.4</b>	J	ug/kg dry	0.65	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
108-88-3	<b>Toluene</b>	<b>1.5</b>	J	ug/kg dry	0.29	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.82	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.86	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.72	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.1	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	12	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
1330-20-7	<b>Xylenes, Total</b>	<b>14</b>	J	ug/kg dry	1.3	17	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 14:54	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %			72.6-129						
460-00-4	Surrogate: p-Bromofluorobenzene	116 %			63.5-145						
2037-26-5	Surrogate: Toluene-d8	101 %			81.2-127						

### Sample Information

**Client Sample ID:** ACMS 4

**York Sample ID:** 12E0631-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 11:00 am

05/17/2012

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.8		%	0.100	0.100	1	SM 2540G	05/18/2012 17:21	05/18/2012 17:21	AA

### Sample Information

**Client Sample ID:** ACMS 5

**York Sample ID:** 12E0631-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 1:30 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.67	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.71	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.75	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.76	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.86	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.7	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.54	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.46	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.4	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.60	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>1.9</b>	J	ug/kg dry	0.66	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.6	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.85	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.74	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.81	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.27	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.59	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.86	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.85	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	39	58	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
78-93-3	<b>2-Butanone</b>	<b>4.3</b>	J	ug/kg dry	3.2	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.61	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS

### Sample Information

**Client Sample ID:** ACMS 5

**York Sample ID:** 12E0631-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 1:30 pm

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.61	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
67-64-1	Acetone	93	B	ug/kg dry	3.9	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
71-43-2	Benzene	ND		ug/kg dry	0.60	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.76	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.6	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.77	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
75-25-2	Bromoform	ND		ug/kg dry	0.72	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.5	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.44	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.95	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
67-66-3	Chloroform	ND		ug/kg dry	0.45	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.1	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.44	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.84	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.7	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.0	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.44	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.54	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.49	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.47	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
75-09-2	Methylene chloride	42	B	ug/kg dry	1.3	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.62	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.40	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.72	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
95-47-6	o-Xylene	1.2	J	ug/kg dry	0.62	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
1330-20-7P/M	p- & m- Xylenes	2.9	J	ug/kg dry	0.69	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.31	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.65	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
100-42-5	Styrene	ND		ug/kg dry	0.54	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.57	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.65	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
108-88-3	Toluene	ND		ug/kg dry	0.29	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.81	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS

### Sample Information

**Client Sample ID:** ACMS 5

**York Sample ID:** 12E0631-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 1:30 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.85	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.71	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.1	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	12	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
1330-20-7	<b>Xylenes, Total</b>	<b>4.1</b>	J	ug/kg dry	1.3	17	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 15:33	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	112 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	99.6 %		81.2-127							

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>% Solids</b>	<b>86.5</b>		%	0.100	0.100	1	SM 2540G	05/18/2012 17:21	05/18/2012 17:21	AA

### Sample Information

**Client Sample ID:** ACMS 6

**York Sample ID:** 12E0631-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 1:45 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.70	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.2	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.74	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.78	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.79	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.89	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.7	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.56	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.48	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.5	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.62	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>1.5</b>	J	ug/kg dry	0.69	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS

### Sample Information

**Client Sample ID:** ACMS 6

**York Sample ID:** 12E0631-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 1:45 pm

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.7	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.88	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.76	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.84	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.29	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.48	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.61	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.89	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.88	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	41	60	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
78-93-3	<b>2-Butanone</b>	<b>13</b>		ug/kg dry	3.3	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.64	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.64	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
67-64-1	<b>Acetone</b>	<b>110</b>	B	ug/kg dry	4.0	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
71-43-2	Benzene	ND		ug/kg dry	0.62	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.79	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.7	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.80	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
75-25-2	Bromoform	ND		ug/kg dry	0.75	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.6	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.45	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.98	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
67-66-3	Chloroform	ND		ug/kg dry	0.47	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.2	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.2	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.45	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.87	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.7	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.1	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.45	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.56	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.51	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.49	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS



### Sample Information

<b><u>Client Sample ID:</u></b> <b>ACMS 6</b>			<b><u>York Sample ID:</u></b> <b>12E0631-06</b>	
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12E0631	AC Middletown Soil NW of Bldg. May 16, 2012	Soil	May 16, 2012  1:45 pm	05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	45	B	ug/kg dry	1.4	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.65	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.41	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.75	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
95-47-6	<b>o-Xylene</b>	<b>0.96</b>	J	ug/kg dry	0.65	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
1330-20-7P/M	<b>p- &amp; m- Xylenes</b>	<b>2.6</b>	J	ug/kg dry	0.71	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.32	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.67	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
100-42-5	Styrene	ND		ug/kg dry	0.56	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.60	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.67	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
108-88-3	Toluene	ND		ug/kg dry	0.30	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.84	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.88	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.74	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.2	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	12	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.3	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
1330-20-7	<b>Xylenes, Total</b>	<b>3.6</b>	J	ug/kg dry	1.4	18	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:11	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	111 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	100 %	81.2-127								

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	83.3		%	0.100	0.100	1	SM 2540G	05/18/2012 17:21	05/18/2012 17:21	AA

### Sample Information

<b><u>Client Sample ID:</u></b> <b>ACMS 7</b>			<b><u>York Sample ID:</u></b> <b>12E0631-07</b>	
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12E0631	AC Middletown Soil NW of Bldg. May 16, 2012	Soil	May 16, 2012  2:00 pm	05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

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

**Client Sample ID:** ACMS 7

**York Sample ID:** 12E0631-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 2:00 pm

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.70	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.2	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.74	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.77	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.79	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.89	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.7	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.56	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.48	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.5	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.62	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>11</b>		ug/kg dry	0.68	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.7	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.88	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.76	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.84	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.28	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>3.9</b>	J	ug/kg dry	0.48	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.61	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.89	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.88	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	41	60	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
78-93-3	2-Butanone	ND		ug/kg dry	3.3	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.63	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.63	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
67-64-1	<b>Acetone</b>	<b>52</b>	B	ug/kg dry	4.0	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
71-43-2	Benzene	ND		ug/kg dry	0.62	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.79	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.7	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.80	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
75-25-2	Bromoform	ND		ug/kg dry	0.75	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.6	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS

### Sample Information

**Client Sample ID:** ACMS 7

**York Sample ID:** 12E0631-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 2:00 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg dry	0.45	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.98	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
67-66-3	Chloroform	ND		ug/kg dry	0.46	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.1	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.2	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.45	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.87	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.7	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.1	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
100-41-4	<b>Ethyl Benzene</b>	<b>3.3</b>	J	ug/kg dry	0.45	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.56	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.50	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.49	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
75-09-2	<b>Methylene chloride</b>	<b>49</b>	B	ug/kg dry	1.4	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.65	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.41	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
103-65-1	<b>n-Propylbenzene</b>	<b>2.1</b>	J	ug/kg dry	0.75	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
95-47-6	<b>o-Xylene</b>	<b>6.1</b>		ug/kg dry	0.65	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
1330-20-7P/M	<b>p- &amp; m- Xylenes</b>	<b>17</b>		ug/kg dry	0.71	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.32	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.67	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
100-42-5	Styrene	ND		ug/kg dry	0.56	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.59	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>62</b>		ug/kg dry	0.67	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
108-88-3	<b>Toluene</b>	<b>2.6</b>	J	ug/kg dry	0.30	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.84	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.88	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
79-01-6	<b>Trichloroethylene</b>	<b>2.3</b>	J	ug/kg dry	0.74	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.2	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	12	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.3	6.0	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
1330-20-7	<b>Xylenes, Total</b>	<b>23</b>		ug/kg dry	1.4	18	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 16:50	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	105 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	131 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	105 %		81.2-127							

### Sample Information

**Client Sample ID:** ACMS 7

**York Sample ID:** 12E0631-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 2:00 pm

05/17/2012

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	83.6		%	0.100	0.100	1	SM 2540G	05/18/2012 17:21	05/18/2012 17:21	AA

### Sample Information

**Client Sample ID:** ACMS 8

**York Sample ID:** 12E0631-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 2:15 pm

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.4	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.5	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	1.6	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.6	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.8	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.5	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	1.1	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.96	24	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.0	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.2	24	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>20</b>		ug/kg dry	1.4	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.4	24	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1.8	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.5	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.7	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.57	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>7.0</b>	J	ug/kg dry	0.96	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.2	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.8	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.8	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	82	120	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.5	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
78-93-3	2-Butanone	ND		ug/kg dry	6.7	24	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	1.3	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS

### Sample Information

**Client Sample ID:** ACMS 8

**York Sample ID:** 12E0631-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 2:15 pm

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-43-4	4-Chlorotoluene	ND		ug/kg dry	1.3	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
67-64-1	Acetone	97	B	ug/kg dry	8.1	24	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
71-43-2	Benzene	ND		ug/kg dry	1.2	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
108-86-1	Bromobenzene	ND		ug/kg dry	1.6	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	3.3	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.6	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
75-25-2	Bromoform	ND		ug/kg dry	1.5	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
74-83-9	Bromomethane	ND		ug/kg dry	3.2	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.91	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.0	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
67-66-3	Chloroform	ND		ug/kg dry	0.94	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.3	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
156-59-2	cis-1,2-Dichloroethylene	6.6	J	ug/kg dry	2.5	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.91	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.7	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
74-95-3	Dibromomethane	ND		ug/kg dry	3.5	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.2	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
100-41-4	Ethyl Benzene	6.5	J	ug/kg dry	0.91	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.1	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.0	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.99	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
75-09-2	Methylene chloride	100	B	ug/kg dry	2.8	24	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.3	24	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.83	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
103-65-1	n-Propylbenzene	3.6	J	ug/kg dry	1.5	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
95-47-6	o-Xylene	12		ug/kg dry	1.3	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
1330-20-7P/M	p- & m- Xylenes	33		ug/kg dry	1.4	24	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.65	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.4	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
100-42-5	Styrene	ND		ug/kg dry	1.1	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.2	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
127-18-4	Tetrachloroethylene	230		ug/kg dry	1.4	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
108-88-3	Toluene	5.2	J	ug/kg dry	0.60	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.7	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS

### Sample Information

**Client Sample ID:** ACMS 8

**York Sample ID:** 12E0631-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 2:15 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.8	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
79-01-6	<b>Trichloroethylene</b>	<b>4.2</b>	J	ug/kg dry	1.5	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	24	24	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	12	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
1330-20-7	<b>Xylenes, Total</b>	<b>45</b>		ug/kg dry	2.7	36	2	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 17:28	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %			72.6-129						
460-00-4	Surrogate: p-Bromofluorobenzene	122 %			63.5-145						
2037-26-5	Surrogate: Toluene-d8	103 %			81.2-127						

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>% Solids</b>	<b>83.1</b>		%	0.100	0.100	1	SM 2540G	05/18/2012 17:21	05/18/2012 17:21	AA

### Sample Information

**Client Sample ID:** ACMS 9

**York Sample ID:** 12E0631-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 2:30 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.67	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.71	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.75	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.76	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.86	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.7	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.54	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.46	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.4	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.60	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>1.3</b>	J	ug/kg dry	0.66	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS



## Sample Information

**Client Sample ID:** ACMS 9

**York Sample ID:** 12E0631-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 2:30 pm

05/17/2012

### Volatile Organics, 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.6	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.85	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.74	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.81	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.27	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.59	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.86	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.85	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	39	58	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
78-93-3	2-Butanone	ND		ug/kg dry	3.2	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.61	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.61	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
67-64-1	Acetone	45	B	ug/kg dry	3.9	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
71-43-2	Benzene	ND		ug/kg dry	0.60	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.76	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.6	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.77	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
75-25-2	Bromoform	ND		ug/kg dry	0.72	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.5	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.44	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.95	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
67-66-3	Chloroform	ND		ug/kg dry	0.45	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.1	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.44	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.84	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.7	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.0	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.44	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.54	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.49	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.47	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS

### Sample Information

**Client Sample ID:** ACMS 9

**York Sample ID:** 12E0631-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 2:30 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	39	B	ug/kg dry	1.3	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.62	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.40	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.72	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
95-47-6	o-Xylene	0.95	J	ug/kg dry	0.62	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
1330-20-7P/M	p- & m- Xylenes	2.2	J	ug/kg dry	0.69	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.31	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.65	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
100-42-5	Styrene	ND		ug/kg dry	0.54	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.57	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
127-18-4	Tetrachloroethylene	9.7		ug/kg dry	0.65	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
108-88-3	Toluene	ND		ug/kg dry	0.29	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.81	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.85	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.71	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.1	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	12	12	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
1330-20-7	Xylenes, Total	3.1	J	ug/kg dry	1.3	17	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:07	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	107 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	99.4 %		81.2-127							

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	86.6		%	0.100	0.100	1	SM 2540G	05/18/2012 17:21	05/18/2012 17:21	AA

### Sample Information

**Client Sample ID:** ACMS 10

**York Sample ID:** 12E0631-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 3:00 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

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

**Client Sample ID:** ACMS 10

**York Sample ID:** 12E0631-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 3:00 pm

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.65	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.2	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.69	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.73	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.74	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.84	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.6	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.45	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.4	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.58	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>1.2</b>	J	ug/kg dry	0.64	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.6	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.82	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.71	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.79	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.27	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.45	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.57	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.84	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.82	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	38	56	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
78-93-3	2-Butanone	ND		ug/kg dry	3.1	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.59	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.59	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
67-64-1	<b>Acetone</b>	<b>56</b>	B	ug/kg dry	3.8	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
71-43-2	Benzene	ND		ug/kg dry	0.58	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.74	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.6	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.75	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
75-25-2	Bromoform	ND		ug/kg dry	0.70	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.5	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS

### Sample Information

**Client Sample ID:** ACMS 10

**York Sample ID:** 12E0631-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 3:00 pm

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg dry	0.42	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.92	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
67-66-3	Chloroform	ND		ug/kg dry	0.44	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.1	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.2	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.42	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.81	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.6	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.0	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.42	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.47	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.46	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
75-09-2	<b>Methylene chloride</b>	<b>26</b>	B	ug/kg dry	1.3	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.61	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.39	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.70	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
95-47-6	<b>o-Xylene</b>	<b>0.94</b>	J	ug/kg dry	0.61	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
1330-20-7P/M	<b>p- &amp; m- Xylenes</b>	<b>2.2</b>	J	ug/kg dry	0.67	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.30	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.63	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
100-42-5	Styrene	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.56	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>22</b>		ug/kg dry	0.63	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
108-88-3	Toluene	ND		ug/kg dry	0.28	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.79	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.82	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.69	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.1	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	11	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.2	5.6	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
1330-20-7	<b>Xylenes, Total</b>	<b>3.1</b>	J	ug/kg dry	1.3	17	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 18:45	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	107 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	99.7 %	81.2-127								

### Sample Information

**Client Sample ID:** ACMS 10

**York Sample ID:** 12E0631-10

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12E0631	AC Middletown Soil NW of Bldg. May 16, 2012	Soil	May 16, 2012 3:00 pm	05/17/2012

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	89.2		%	0.100	0.100	1	SM 2540G	05/18/2012 17:21	05/18/2012 17:21	AA

### Sample Information

**Client Sample ID:** ACMS 11

**York Sample ID:** 12E0631-11

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12E0631	AC Middletown Soil NW of Bldg. May 16, 2012	Soil	May 16, 2012 3:15 pm	05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.66	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.2	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.70	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.74	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.75	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.85	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.6	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.53	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.46	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.4	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.59	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>1.1</b>	J	ug/kg dry	0.65	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.6	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.84	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.73	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.80	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.27	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.58	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.85	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.84	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	39	57	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
78-93-3	2-Butanone	ND		ug/kg dry	3.2	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS



### Sample Information

**Client Sample ID:** ACMS 11

**York Sample ID:** 12E0631-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 3:15 pm

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.60	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.60	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
67-64-1	Acetone	45	B	ug/kg dry	3.8	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
71-43-2	Benzene	ND		ug/kg dry	0.59	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.75	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.6	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.76	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
75-25-2	Bromoform	ND		ug/kg dry	0.71	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.5	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.43	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.93	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
67-66-3	Chloroform	ND		ug/kg dry	0.44	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.1	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.2	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.43	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.82	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.6	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.0	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.43	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.53	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.48	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.47	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
75-09-2	Methylene chloride	42	B	ug/kg dry	1.3	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.62	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.39	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.71	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.62	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
1330-20-7P/M	p- & m- Xylenes	2.0	J	ug/kg dry	0.68	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.31	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.64	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
100-42-5	Styrene	ND		ug/kg dry	0.53	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.57	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
127-18-4	Tetrachloroethylene	23		ug/kg dry	0.64	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
108-88-3	Toluene	ND		ug/kg dry	0.28	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS

### Sample Information

**Client Sample ID:** ACMS 11

**York Sample ID:** 12E0631-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Soil

May 16, 2012 3:15 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.80	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.84	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
79-01-6	<b>Trichloroethylene</b>	<b>1.4</b>	J	ug/kg dry	0.70	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.1	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	11	11	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.2	5.7	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
1330-20-7	<b>Xylenes, Total</b>	<b>2.0</b>	J	ug/kg dry	1.3	17	1	EPA SW846-8260B	05/21/2012 08:00	05/22/2012 19:24	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	108 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	99.6 %	81.2-127								

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	<b>% Solids</b>	<b>87.8</b>		%	0.100	0.100	1	SM 2540G	05/18/2012 17:21	05/18/2012 17:21	AA

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12E0631-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Water

May 16, 2012 3:00 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.95	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.57	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.60	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.61	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.69	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.37	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.1	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.48	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12E0631-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Water

May 16, 2012 3:00 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.53	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.3	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.59	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.65	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.22	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.37	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.69	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.96	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
78-93-3	2-Butanone	ND		ug/L	2.6	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.49	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.49	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
67-64-1	Acetone	12	B	ug/L	3.1	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
71-43-2	Benzene	ND		ug/L	0.48	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
108-86-1	Bromobenzene	ND		ug/L	0.61	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
74-97-5	Bromochloromethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.62	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
74-83-9	Bromomethane	ND		ug/L	1.2	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
108-90-7	Chlorobenzene	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
75-00-3	Chloroethane	ND		ug/L	0.76	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
67-66-3	Chloroform	ND		ug/L	0.36	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
74-87-3	Chloromethane	ND		ug/L	0.89	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.96	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.67	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
74-95-3	Dibromomethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.83	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.39	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12E0631-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Water

May 16, 2012 3:00 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	11	B	ug/L	1.1	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
91-20-3	Naphthalene	ND		ug/L	0.50	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
95-47-6	o-Xylene	ND		ug/L	0.50	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.55	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.25	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
100-42-5	Styrene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.46	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
108-88-3	Toluene	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.65	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
79-01-6	Trichloroethylene	ND		ug/L	0.57	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.91	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
108-05-4	Vinyl acetate	ND		ug/L	10	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.97	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
1330-20-7	Xylenes, Total	ND		ug/L	1.0	15	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 02:29	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	108 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	98.3 %	81.2-127								

### Sample Information

**Client Sample ID:** Field Blank

**York Sample ID:** 12E0631-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Water

May 16, 2012 3:15 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.95	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.57	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS

### Sample Information

**Client Sample ID:** Field Blank

**York Sample ID:** 12E0631-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Water

May 16, 2012 3:15 pm

05/17/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	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	0.60	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.61	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.69	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.37	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.1	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.48	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.53	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.3	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.59	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.65	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.22	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.37	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.69	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.96	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
78-93-3	2-Butanone	ND		ug/L	2.6	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.49	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.49	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
67-64-1	Acetone	15	B	ug/L	3.1	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
71-43-2	Benzene	ND		ug/L	0.48	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
108-86-1	Bromobenzene	ND		ug/L	0.61	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
74-97-5	Bromochloromethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.62	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
74-83-9	Bromomethane	ND		ug/L	1.2	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
108-90-7	Chlorobenzene	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
75-00-3	Chloroethane	ND		ug/L	0.76	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
67-66-3	Chloroform	ND		ug/L	0.36	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
74-87-3	Chloromethane	ND		ug/L	0.89	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS



### Sample Information

**Client Sample ID:** Field Blank

**York Sample ID:** 12E0631-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12E0631

AC Middletown Soil NW of Bldg. May 16, 2012

Water

May 16, 2012 3:15 pm

05/17/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.96	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.67	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
74-95-3	Dibromomethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.83	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.39	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
75-09-2	<b>Methylene chloride</b>	<b>10</b>	B	ug/L	1.1	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
91-20-3	Naphthalene	ND		ug/L	0.50	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
95-47-6	o-Xylene	ND		ug/L	0.50	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.55	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.25	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
100-42-5	Styrene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.46	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
108-88-3	Toluene	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.65	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
79-01-6	Trichloroethylene	ND		ug/L	0.57	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.91	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
108-05-4	Vinyl acetate	ND		ug/L	10	10	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.97	5.0	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
1330-20-7	Xylenes, Total	ND		ug/L	1.0	15	1	EPA SW846-8260B	05/22/2012 15:38	05/23/2012 03:08	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	107 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	98.4 %	81.2-127								

## Analytical Batch Summary

**Batch ID:** BE20765      **Preparation Method:** % Solids Prep      **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
12E0631-01	ACMS 1	05/18/12
12E0631-02	ACMS 2	05/18/12
12E0631-03	ACMS 3	05/18/12
12E0631-04	ACMS 4	05/18/12
12E0631-05	ACMS 5	05/18/12
12E0631-06	ACMS 6	05/18/12
12E0631-07	ACMS 7	05/18/12
12E0631-08	ACMS 8	05/18/12
12E0631-09	ACMS 9	05/18/12
12E0631-10	ACMS 10	05/18/12
12E0631-11	ACMS 11	05/18/12

**Batch ID:** BE20868      **Preparation Method:** EPA 5035B      **Prepared By:** VRL

YORK Sample ID	Client Sample ID	Preparation Date
12E0631-01	ACMS 1	05/21/12
12E0631-02	ACMS 2	05/21/12
12E0631-03	ACMS 3	05/21/12
12E0631-04	ACMS 4	05/21/12
12E0631-05	ACMS 5	05/21/12
12E0631-06	ACMS 6	05/21/12
12E0631-07	ACMS 7	05/21/12
12E0631-08	ACMS 8	05/21/12
12E0631-09	ACMS 9	05/21/12
12E0631-10	ACMS 10	05/21/12
12E0631-11	ACMS 11	05/21/12
BE20868-BLK1	Blank	05/22/12
BE20868-BS1	LCS	05/22/12
BE20868-BSD1	LCS Dup	05/22/12
BE20868-MS1	Matrix Spike	05/22/12
BE20868-MSD1	Matrix Spike Dup	05/22/12

**Batch ID:** BE20896      **Preparation Method:** EPA 5030B      **Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
12E0631-12	Trip Blank	05/22/12
12E0631-13	Field Blank	05/22/12
BE20896-BLK1	Blank	05/22/12
BE20896-BS1	LCS	05/22/12
BE20896-BSD1	LCS Dup	05/22/12

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BE20868 - EPA 5035B**

**Blank (BE20868-BLK1)**

Prepared & Analyzed: 05/22/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	50	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	10	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	7.3	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylene chloride	8.2	10	"
Naphthalene	ND	10	"
n-Butylbenzene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
o-Xylene	ND	5.0	"
p- & m- Xylenes	ND	10	"
p-Isopropyltoluene	ND	5.0	"

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BE20868 - EPA 5035B**

**Blank (BE20868-BLK1)**

Prepared & Analyzed: 05/22/2012

sec-Butylbenzene	ND	5.0	ug/kg wet								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>53.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>106</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>54.0</i>		<i>"</i>	<i>50.0</i>		<i>108</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.2</i>	<i>81.2-127</i>				

**LCS (BE20868-BS1)**

Prepared & Analyzed: 05/22/2012

1,1,1,2-Tetrachloroethane	49		ug/L	50.0		97.7	71.7-135				
1,1,1-Trichloroethane	50		"	50.0		101	72.6-137				
1,1,2,2-Tetrachloroethane	47		"	50.0		94.5	65.4-135				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56		"	50.0		111	67.8-129				
1,1,2-Trichloroethane	50		"	50.0		99.2	68.6-132				
1,1-Dichloroethane	52		"	50.0		105	71.7-131				
1,1-Dichloroethylene	53		"	50.0		106	74.4-148				
1,1-Dichloropropylene	53		"	50.0		106	72.5-135				
1,2,3-Trichlorobenzene	51		"	50.0		101	62.7-139				
1,2,3-Trichloropropane	46		"	50.0		91.4	61.7-131				
1,2,4-Trichlorobenzene	53		"	50.0		106	65-139				
1,2,4-Trimethylbenzene	50		"	50.0		100	73.1-136				
1,2-Dibromo-3-chloropropane	41		"	50.0		81.1	53.3-149				
1,2-Dibromoethane	55		"	50.0		111	72.7-134				
1,2-Dichlorobenzene	48		"	50.0		96.7	71.6-125				
1,2-Dichloroethane	53		"	50.0		106	68.7-136				
1,2-Dichloropropane	50		"	50.0		100	68.2-136				
1,3,5-Trimethylbenzene	49		"	50.0		97.1	69.7-127				
1,3-Dichlorobenzene	49		"	50.0		98.4	69.8-129				
1,3-Dichloropropane	51		"	50.0		102	69.3-132				
1,4-Dichlorobenzene	50		"	50.0		99.6	71.3-129				
1,4-Dioxane	11		"	2000		0.567	70-130	Low Bias			
2,2-Dichloropropane	53		"	50.0		106	65.5-131				
2-Butanone	48		"	50.0		96.2	70-130				
2-Chlorotoluene	47		"	50.0		93.5	64.2-120				
4-Chlorotoluene	49		"	50.0		98.4	68.8-129				
Acetone	56		"	50.0		111	70-130				
Benzene	53		"	50.0		106	70.4-128				
Bromobenzene	47		"	50.0		93.8	66.8-127				
Bromochloromethane	52		"	50.0		104	71.6-133				
Bromodichloromethane	51		"	50.0		101	70.6-136				
Bromoform	42		"	50.0		83.1	63.2-139				
Bromomethane	57		"	50.0		113	50.2-135				
Carbon tetrachloride	50		"	50.0		101	71.9-140				
Chlorobenzene	51		"	50.0		103	76.4-127				
Chloroethane	54		"	50.0		107	50.8-142				
Chloroform	54		"	50.0		108	73.6-132				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BE20868 - EPA 5035B**

**LCS (BE20868-BS1)**

Prepared & Analyzed: 05/22/2012

Chloromethane	44		ug/L	50.0		88.8	32.9-131				
cis-1,2-Dichloroethylene	52		"	50.0		105	69.5-128				
cis-1,3-Dichloropropylene	47		"	50.0		93.8	66.6-129				
Dibromochloromethane	45		"	50.0		90.6	71.4-135				
Dibromomethane	53		"	50.0		107	72.3-133				
Dichlorodifluoromethane	34		"	50.0		67.9	39.4-108				
Ethyl Benzene	54		"	50.0		108	75.2-131				
Hexachlorobutadiene	47		"	50.0		93.3	60.5-130				
Isopropylbenzene	52		"	50.0		104	73.7-136				
Methyl tert-butyl ether (MTBE)	52		"	50.0		103	56.5-140				
Methylene chloride	53		"	50.0		107	58.4-120				
Naphthalene	46		"	50.0		92.0	55.2-150				
n-Butylbenzene	49		"	50.0		97.5	63.7-125				
n-Propylbenzene	50		"	50.0		100	67.8-128				
o-Xylene	50		"	50.0		99.7	70.4-126				
p- & m- Xylenes	110		"	100		107	73.8-130				
p-Isopropyltoluene	50		"	50.0		101	71.1-131				
sec-Butylbenzene	49		"	50.0		98.3	68.6-126				
Styrene	50		"	50.0		100	71.7-126				
tert-Butylbenzene	53		"	50.0		107	76.4-151				
Tetrachloroethylene	53		"	50.0		107	65-168				
Toluene	51		"	50.0		101	72.5-127				
trans-1,2-Dichloroethylene	52		"	50.0		105	62.2-144				
trans-1,3-Dichloropropylene	49		"	50.0		97.1	66-135				
Trichloroethylene	50		"	50.0		100	72.6-133				
Trichlorofluoromethane	52		"	50.0		104	51.5-131				
Vinyl Chloride	48		"	50.0		95.9	47-126				
Vinyl acetate	38		"	50.0		77.0	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>53.6</i>		<i>"</i>	<i>50.0</i>		<i>107</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>48.6</i>		<i>"</i>	<i>50.0</i>		<i>97.3</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>48.9</i>		<i>"</i>	<i>50.0</i>		<i>97.8</i>	<i>81.2-127</i>				



**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD		
		Limit		Level	Result	Limits	RPD		Limit	Flag	
Batch BE20868 - EPA 5035B											
LCS Dup (BE20868-BSD1)				Prepared & Analyzed: 05/22/2012							
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		99.2	71.7-135		1.52	22.3	
1,1,1-Trichloroethane	50		"	50.0		100	72.6-137		0.298	22.5	
1,1,2,2-Tetrachloroethane	47		"	50.0		94.1	65.4-135		0.424	23.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56		"	50.0		111	67.8-129		0.144	25	
1,1,2-Trichloroethane	50		"	50.0		99.4	68.6-132		0.242	22.6	
1,1-Dichloroethane	52		"	50.0		104	71.7-131		1.02	22.8	
1,1-Dichloroethylene	53		"	50.0		106	74.4-148		0.716	26.8	
1,1-Dichloropropylene	52		"	50.0		104	72.5-135		1.46	22	
1,2,3-Trichlorobenzene	52		"	50.0		104	62.7-139		3.08	25.6	
1,2,3-Trichloropropane	46		"	50.0		92.2	61.7-131		0.937	24.2	
1,2,4-Trichlorobenzene	54		"	50.0		107	65-139		1.39	26.6	
1,2,4-Trimethylbenzene	51		"	50.0		102	73.1-136		1.92	24.3	
1,2-Dibromo-3-chloropropane	40		"	50.0		79.8	53.3-149		1.57	29.1	
1,2-Dibromoethane	55		"	50.0		109	72.7-134		1.33	21.1	
1,2-Dichlorobenzene	49		"	50.0		97.9	71.6-125		1.23	22.8	
1,2-Dichloroethane	52		"	50.0		104	68.7-136		1.94	21.6	
1,2-Dichloropropane	51		"	50.0		102	68.2-136		1.29	22.5	
1,3,5-Trimethylbenzene	49		"	50.0		98.4	69.7-127		1.35	23.3	
1,3-Dichlorobenzene	50		"	50.0		100	69.8-129		1.69	23.3	
1,3-Dichloropropane	51		"	50.0		102	69.3-132		0.0978	22.4	
1,4-Dichlorobenzene	51		"	50.0		101	71.3-129		1.40	23.9	
1,4-Dioxane	2.5		"	2000		0.127	70-130	Low Bias	127	30	Non-dir.
2,2-Dichloropropane	52		"	50.0		105	65.5-131		1.03	22	
2-Butanone	45		"	50.0		89.6	70-130		7.10	30	
2-Chlorotoluene	47		"	50.0		94.8	64.2-120		1.34	23.3	
4-Chlorotoluene	50		"	50.0		100	68.8-129		1.55	23.5	
Acetone	51		"	50.0		103	70-130		8.13	30	
Benzene	53		"	50.0		105	70.4-128		0.492	21.8	
Bromobenzene	47		"	50.0		93.4	66.8-127		0.406	23.1	
Bromochloromethane	52		"	50.0		104	71.6-133		0.00	22	
Bromodichloromethane	51		"	50.0		102	70.6-136		0.885	22.7	
Bromoform	42		"	50.0		83.3	63.2-139		0.216	23.3	
Bromomethane	55		"	50.0		110	50.2-135		2.76	29.1	
Carbon tetrachloride	50		"	50.0		101	71.9-140		0.198	22.4	
Chlorobenzene	52		"	50.0		104	76.4-127		1.85	21.8	
Chloroethane	53		"	50.0		107	50.8-142		0.467	24	
Chloroform	54		"	50.0		107	73.6-132		0.633	21.9	
Chloromethane	44		"	50.0		88.2	32.9-131		0.746	22.8	
cis-1,2-Dichloroethylene	52		"	50.0		104	69.5-128		0.804	22	
cis-1,3-Dichloropropylene	47		"	50.0		93.9	66.6-129		0.0639	22.7	
Dibromochloromethane	46		"	50.0		92.6	71.4-135		2.20	22.1	
Dibromomethane	53		"	50.0		106	72.3-133		0.753	23.1	
Dichlorodifluoromethane	34		"	50.0		67.5	39.4-108		0.502	26	
Ethyl Benzene	55		"	50.0		109	75.2-131		1.31	22.5	
Hexachlorobutadiene	49		"	50.0		97.3	60.5-130		4.22	25.4	
Isopropylbenzene	53		"	50.0		106	73.7-136		1.73	23.2	
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	56.5-140		0.925	30.6	
Methylene chloride	52		"	50.0		103	58.4-120		3.22	23.8	
Naphthalene	46		"	50.0		92.5	55.2-150		0.520	29.4	
n-Butylbenzene	50		"	50.0		99.7	63.7-125		2.17	25.3	
n-Propylbenzene	51		"	50.0		102	67.8-128		1.90	28.9	
o-Xylene	50		"	50.0		101	70.4-126		1.10	22.7	
p- & m- Xylenes	110		"	100		108	73.8-130		1.48	23	
p-Isopropyltoluene	51		"	50.0		103	71.1-131		2.20	23.4	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BE20868 - EPA 5035B**

**LCS Dup (BE20868-BSD1)**

Prepared & Analyzed: 05/22/2012

sec-Butylbenzene	50		ug/L	50.0		101	68.6-126		2.45	23.3	
Styrene	51		"	50.0		101	71.7-126		1.01	21.9	
tert-Butylbenzene	55		"	50.0		110	76.4-151		2.88	45.4	
Tetrachloroethylene	55		"	50.0		110	65-168		2.99	27.9	
Toluene	51		"	50.0		102	72.5-127		0.884	22.9	
trans-1,2-Dichloroethylene	53		"	50.0		106	62.2-144		0.910	24.6	
trans-1,3-Dichloropropylene	48		"	50.0		96.9	66-135		0.247	23	
Trichloroethylene	50		"	50.0		100	72.6-133		0.0998	21.9	
Trichlorofluoromethane	52		"	50.0		103	51.5-131		0.964	24.2	
Vinyl Chloride	48		"	50.0		95.3	47-126		0.627	25.5	
Vinyl acetate	38		"	50.0		75.1	70-130		2.47	30	
Surrogate: 1,2-Dichloroethane-d4	52.5		"	50.0		105	72.6-129				
Surrogate: p-Bromofluorobenzene	49.4		"	50.0		98.8	63.5-145				
Surrogate: Toluene-d8	49.5		"	50.0		99.1	81.2-127				

**Matrix Spike (BE20868-MS1)**

\*Source sample: 12E0631-08 (ACMS 8)

Prepared & Analyzed: 05/22/2012

1,1,1,2-Tetrachloroethane	36		ug/L	50.0	ND	72.9	73-125	Low Bias			
1,1,1-Trichloroethane	40		"	50.0	ND	79.8	69.7-117				
1,1,2,2-Tetrachloroethane	40		"	50.0	ND	81.0	67.4-136				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	42		"	50.0	ND	83.7	67.6-103				
1,1,2-Trichloroethane	39		"	50.0	ND	78.6	57.6-124				
1,1-Dichloroethane	43		"	50.0	ND	85.6	58.4-122				
1,1-Dichloroethylene	42		"	50.0	ND	84.7	72.9-126				
1,1-Dichloropropylene	40		"	50.0	ND	80.2	61.8-118				
1,2,3-Trichlorobenzene	15		"	50.0	ND	29.5	67.9-119	Low Bias			
1,2,3-Trichloropropane	42		"	50.0	ND	83.5	45.9-150				
1,2,4-Trichlorobenzene	17		"	50.0	ND	34.3	72.1-114	Low Bias			
1,2,4-Trimethylbenzene	45		"	50.0	17	55.7	61.9-109	Low Bias			
1,2-Dibromo-3-chloropropane	30		"	50.0	ND	59.5	18.1-176				
1,2-Dibromoethane	41		"	50.0	ND	81.8	41.3-139				
1,2-Dichlorobenzene	30		"	50.0	ND	59.7	44.1-124				
1,2-Dichloroethane	42		"	50.0	ND	84.1	60.2-122				
1,2-Dichloropropane	42		"	50.0	ND	84.3	57.2-130				
1,3,5-Trimethylbenzene	40		"	50.0	5.8	68.7	61.2-103				
1,3-Dichlorobenzene	31		"	50.0	ND	62.1	38-133				
1,3-Dichloropropane	41		"	50.0	ND	82.4	68.7-122				
1,4-Dichlorobenzene	32		"	50.0	ND	64.6	38.7-133				
1,4-Dioxane	7.4		"	2000	ND	0.370	70-130	Low Bias			
2,2-Dichloropropane	39		"	50.0	ND	77.9	71.7-105				
2-Butanone	35		"	50.0	ND	70.8	70-130				
2-Chlorotoluene	37		"	50.0	ND	73.9	41.8-127				
4-Chlorotoluene	36		"	50.0	ND	72.5	46.5-128				
Acetone	78		"	50.0	81	NR	70-130	Low Bias			
Benzene	42		"	50.0	ND	83.8	59.1-115				
Bromobenzene	36		"	50.0	ND	72.9	46-135				
Bromochloromethane	42		"	50.0	ND	84.0	70.1-116				
Bromodichloromethane	41		"	50.0	ND	81.8	56.6-130				
Bromoform	33		"	50.0	ND	65.9	43.7-137				
Bromomethane	46		"	50.0	ND	91.5	34.6-120				
Carbon tetrachloride	39		"	50.0	ND	77.0	64.1-119				
Chlorobenzene	36		"	50.0	ND	73.0	38.3-132				
Chloroethane	44		"	50.0	ND	89.0	32.6-133				
Chloroform	43		"	50.0	ND	86.0	67.7-116				
Chloromethane	37		"	50.0	ND	73.9	33.1-109				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BE20868 - EPA 5035B**

<b>Matrix Spike (BE20868-MS1)</b>	*Source sample: 12E0631-08 (ACMS 8)						Prepared & Analyzed: 05/22/2012				
cis-1,2-Dichloroethylene	44		ug/L	50.0	5.5	77.5	53.9-116				
cis-1,3-Dichloropropylene	35		"	50.0	ND	70.4	35.7-135				
Dibromochloromethane	34		"	50.0	ND	68.1	46.6-136				
Dibromomethane	44		"	50.0	ND	88.1	69.8-122				
Dichlorodifluoromethane	26		"	50.0	ND	52.0	37.9-98.1				
Ethyl Benzene	42		"	50.0	5.4	73.5	45.3-123				
Hexachlorobutadiene	24		"	50.0	ND	47.7	43.4-102				
Isopropylbenzene	45		"	50.0	ND	90.3	70.3-110				
Methyl tert-butyl ether (MTBE)	43		"	50.0	ND	86.2	40.2-137				
Methylene chloride	75		"	50.0	84	NR	39.2-109	Low Bias			
Naphthalene	18		"	50.0	ND	35.1	-6.06-206				
n-Butylbenzene	32		"	50.0	ND	63.1	43.5-93.9				
n-Propylbenzene	42		"	50.0	3.0	77.6	58.9-102				
o-Xylene	40		"	50.0	10	59.8	41.5-115				
p- & m- Xylenes	89		"	100	28	61.6	42.6-121				
p-Isopropyltoluene	36		"	50.0	ND	72.4	37.5-136				
sec-Butylbenzene	38		"	50.0	ND	75.7	38-130				
Styrene	32		"	50.0	ND	63.1	47.6-119				
tert-Butylbenzene	44		"	50.0	ND	88.4	68.9-142				
Tetrachloroethylene	160		"	50.0	190	NR	38.5-161	Low Bias			
Toluene	42		"	50.0	4.3	74.4	48.1-124				
trans-1,2-Dichloroethylene	42		"	50.0	ND	84.3	67.6-121				
trans-1,3-Dichloropropylene	35		"	50.0	ND	69.6	47.5-135				
Trichloroethylene	42		"	50.0	3.5	76.4	59.3-137				
Trichlorofluoromethane	41		"	50.0	ND	82.7	28.9-124				
Vinyl Chloride	39		"	50.0	ND	78.3	29.8-116				
Vinyl acetate	5.9		"	50.0	ND	11.7	70-130	Low Bias			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.3</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>56.0</i>		<i>"</i>	<i>50.0</i>		<i>112</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>51.2</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>81.2-127</i>				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BE20868 - EPA 5035B</b>											
<b>Matrix Spike Dup (BE20868-MSD1)</b>	*Source sample: 12E0631-08 (ACMS 8)						Prepared & Analyzed: 05/22/2012				
1,1,1,2-Tetrachloroethane	41		ug/L	50.0	ND	82.9	73-125		12.9	15.5	
1,1,1-Trichloroethane	46		"	50.0	ND	91.1	69.7-117		13.2	15.6	
1,1,2,2-Tetrachloroethane	44		"	50.0	ND	88.6	67.4-136		8.94	25.2	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47		"	50.0	ND	94.7	67.6-103		12.3	15.6	
1,1,2-Trichloroethane	44		"	50.0	ND	88.2	57.6-124		11.5	20.4	
1,1-Dichloroethane	48		"	50.0	ND	96.3	58.4-122		11.7	17.5	
1,1-Dichloroethylene	48		"	50.0	ND	95.8	72.9-126		12.3	23.2	
1,1-Dichloropropylene	45		"	50.0	ND	89.9	61.8-118		11.4	15.6	
1,2,3-Trichlorobenzene	17		"	50.0	ND	33.8	67.9-119	Low Bias	13.6	17.8	
1,2,3-Trichloropropane	45		"	50.0	ND	90.4	45.9-150		7.91	22.5	
1,2,4-Trichlorobenzene	20		"	50.0	ND	39.6	72.1-114	Low Bias	14.4	26.8	
1,2,4-Trimethylbenzene	48		"	50.0	17	62.7	61.9-109		11.7	26	
1,2-Dibromo-3-chloropropane	32		"	50.0	ND	63.4	18.1-176		6.41	27.7	
1,2-Dibromoethane	46		"	50.0	ND	92.9	41.3-139		12.8	20.5	
1,2-Dichlorobenzene	34		"	50.0	ND	68.1	44.1-124		13.2	25	
1,2-Dichloroethane	48		"	50.0	ND	95.1	60.2-122		12.3	25.1	
1,2-Dichloropropane	47		"	50.0	ND	94.7	57.2-130		11.7	25	
1,3,5-Trimethylbenzene	45		"	50.0	5.8	78.6	61.2-103		13.5	25	
1,3-Dichlorobenzene	36		"	50.0	ND	72.5	38-133		15.6	25	
1,3-Dichloropropane	46		"	50.0	ND	91.9	68.7-122		10.9	17.4	
1,4-Dichlorobenzene	36		"	50.0	ND	72.0	38.7-133		10.9	25	
1,4-Dioxane	9.8		"	2000	ND	0.489	70-130	Low Bias	27.6	30	
2,2-Dichloropropane	44		"	50.0	ND	87.5	71.7-105		11.6	25	
2-Butanone	38		"	50.0	ND	77.0	70-130		8.45	30	
2-Chlorotoluene	42		"	50.0	ND	84.5	41.8-127		13.4	25	
4-Chlorotoluene	42		"	50.0	ND	83.8	46.5-128		14.5	25	
Acetone	77		"	50.0	81	NR	70-130	Low Bias	NR	30	
Benzene	47		"	50.0	ND	94.4	59.1-115		11.9	23.5	
Bromobenzene	41		"	50.0	ND	82.9	46-135		12.9	25	
Bromochloromethane	47		"	50.0	ND	94.3	70.1-116		11.6	25	
Bromodichloromethane	46		"	50.0	ND	92.0	56.6-130		11.7	22.7	
Bromoform	38		"	50.0	ND	76.8	43.7-137		15.3	25	
Bromomethane	51		"	50.0	ND	103	34.6-120		11.3	25	
Carbon tetrachloride	44		"	50.0	ND	87.0	64.1-119		12.2	28.5	
Chlorobenzene	42		"	50.0	ND	83.2	38.3-132		13.1	36.2	
Chloroethane	50		"	50.0	ND	99.4	32.6-133		11.1	28.2	
Chloroform	49		"	50.0	ND	97.6	67.7-116		12.6	23.7	
Chloromethane	41		"	50.0	ND	82.3	33.1-109		10.7	25	
cis-1,2-Dichloroethylene	50		"	50.0	5.5	89.9	53.9-116		14.8	24.8	
cis-1,3-Dichloropropylene	40		"	50.0	ND	79.4	35.7-135		12.1	38.7	
Dibromochloromethane	39		"	50.0	ND	78.6	46.6-136		14.3	28.9	
Dibromomethane	49		"	50.0	ND	97.1	69.8-122		9.74	25	
Dichlorodifluoromethane	29		"	50.0	ND	58.1	37.9-98.1		11.2	30.4	
Ethyl Benzene	47		"	50.0	5.4	82.6	45.3-123		11.6	38.1	
Hexachlorobutadiene	25		"	50.0	ND	50.6	43.4-102		5.74	27	
Isopropylbenzene	52		"	50.0	ND	103	70.3-110		13.1	25	
Methyl tert-butyl ether (MTBE)	48		"	50.0	ND	96.7	40.2-137		11.5	25	
Methylene chloride	79		"	50.0	84	NR	39.2-109	Low Bias	NR	25	
Naphthalene	19		"	50.0	ND	38.9	-6.06-206		10.2	29.3	
n-Butylbenzene	36		"	50.0	ND	72.3	43.5-93.9		13.5	25	
n-Propylbenzene	47		"	50.0	3.0	88.6	58.9-102		13.2	25	
o-Xylene	43		"	50.0	10	66.8	41.5-115		11.0	35.3	
p- & m- Xylenes	95		"	100	28	67.9	42.6-121		9.75	37	
p-Isopropyltoluene	42		"	50.0	ND	83.6	37.5-136		14.3	25	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BE20868 - EPA 5035B**

<b>Matrix Spike Dup (BE20868-MSD1)</b>		*Source sample: 12E0631-08 (ACMS 8)				Prepared & Analyzed: 05/22/2012					
sec-Butylbenzene	43		ug/L	50.0	ND	85.6	38-130		12.3	25	
Styrene	36		"	50.0	ND	72.4	47.6-119		13.8	25	
tert-Butylbenzene	49		"	50.0	ND	98.8	68.9-142		11.0	25	
Tetrachloroethylene	180		"	50.0	190	NR	38.5-161	Low Bias	NR	38.3	
Toluene	46		"	50.0	4.3	84.1	48.1-124		12.2	28.1	
trans-1,2-Dichloroethylene	48		"	50.0	ND	95.9	67.6-121		12.8	25	
trans-1,3-Dichloropropylene	39		"	50.0	ND	78.3	47.5-135		11.8	25	
Trichloroethylene	47		"	50.0	3.5	86.5	59.3-137		12.4	51.6	
Trichlorofluoromethane	46		"	50.0	ND	92.6	28.9-124		11.3	27	
Vinyl Chloride	44		"	50.0	ND	87.6	29.8-116		11.2	21.8	
Vinyl acetate	6.7		"	50.0	ND	13.4	70-130	Low Bias	13.5	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>52.2</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>57.9</i>		<i>"</i>	<i>50.0</i>		<i>116</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>51.4</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>81.2-127</i>				

**Batch BE20896 - EPA 5030B**

<b>Blank (BE20896-BLK1)</b>		Prepared: 05/22/2012 Analyzed: 05/23/2012									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
Acetone	7.8	10	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

## York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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## Batch BE20896 - EPA 5030B

## Blank (BE20896-BLK1)

Prepared: 05/22/2012 Analyzed: 05/23/2012

Chloromethane	ND	5.0	ug/L								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	7.7	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
Surrogate: 1,2-Dichloroethane-d4	56.3		"	50.0		113	72.6-129				
Surrogate: p-Bromofluorobenzene	53.6		"	50.0		107	63.5-145				
Surrogate: Toluene-d8	49.1		"	50.0		98.3	81.2-127				



## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	Limit	Flag
		Limit			Result		Limits				
Batch BE20896 - EPA 5030B											
LCS (BE20896-BS1)				Prepared: 05/22/2012 Analyzed: 05/23/2012							
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.8	82.3-130				
1,1,1-Trichloroethane	48		"	50.0		95.4	75.6-137				
1,1,2,2-Tetrachloroethane	44		"	50.0		87.9	71.3-131				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	52		"	50.0		104	71.1-129				
1,1,2-Trichloroethane	47		"	50.0		93.6	74.5-129				
1,1-Dichloroethane	50		"	50.0		99.6	79.6-132				
1,1-Dichloroethylene	49		"	50.0		98.4	80.2-146				
1,1-Dichloropropylene	50		"	50.0		99.6	75-136				
1,2,3-Trichlorobenzene	48		"	50.0		96.6	66.1-136				
1,2,3-Trichloropropane	44		"	50.0		88.4	63-131				
1,2,4-Trichlorobenzene	49		"	50.0		97.3	70.6-136				
1,2,4-Trimethylbenzene	48		"	50.0		95.9	75.3-135				
1,2-Dibromo-3-chloropropane	37		"	50.0		74.0	58.9-140				
1,2-Dibromoethane	51		"	50.0		103	79-130				
1,2-Dichlorobenzene	46		"	50.0		92.8	76.1-122				
1,2-Dichloroethane	50		"	50.0		101	74.6-132				
1,2-Dichloropropane	48		"	50.0		96.0	76.9-129				
1,3,5-Trimethylbenzene	46		"	50.0		92.9	70.6-127				
1,3-Dichlorobenzene	46		"	50.0		92.4	77-124				
1,3-Dichloropropane	48		"	50.0		96.1	75.8-126				
1,4-Dichlorobenzene	47		"	50.0		93.4	76.6-125				
2,2-Dichloropropane	46		"	50.0		91.9	69-133				
2-Butanone	44		"	50.0		87.9	70-130				
2-Chlorotoluene	44		"	50.0		88.9	66.3-119				
4-Chlorotoluene	46		"	50.0		92.8	69.2-127				
Acetone	52		"	50.0		104	70-130				
Benzene	50		"	50.0		101	76.2-129				
Bromobenzene	45		"	50.0		89.1	71.3-123				
Bromochloromethane	50		"	50.0		100	70.8-137				
Bromodichloromethane	49		"	50.0		97.3	79.7-134				
Bromoform	39		"	50.0		78.4	70.5-141				
Bromomethane	53		"	50.0		105	43.9-147				
Carbon tetrachloride	48		"	50.0		96.0	78.1-138				
Chlorobenzene	49		"	50.0		97.6	80.4-125				
Chloroethane	49		"	50.0		97.4	55.8-140				
Chloroform	52		"	50.0		103	76.6-133				
Chloromethane	38		"	50.0		76.5	48.8-115				
cis-1,2-Dichloroethylene	50		"	50.0		101	75.1-128				
cis-1,3-Dichloropropylene	43		"	50.0		85.5	74.5-128				
Dibromochloromethane	43		"	50.0		86.8	79.8-134				
Dibromomethane	49		"	50.0		99.0	79-130				
Dichlorodifluoromethane	25		"	50.0		50.2	47.1-101				
Ethyl Benzene	51		"	50.0		102	80.8-128				
Hexachlorobutadiene	46		"	50.0		91.0	64.8-128				
Isopropylbenzene	50		"	50.0		99.7	75.5-135				
Methyl tert-butyl ether (MTBE)	49		"	50.0		97.8	65.1-140				
Methylene chloride	52		"	50.0		105	61.3-120				
Naphthalene	45		"	50.0		90.8	62.3-148				
n-Butylbenzene	46		"	50.0		91.9	67.2-123				
n-Propylbenzene	48		"	50.0		95.7	70.5-127				
o-Xylene	47		"	50.0		94.1	75.9-122				
p- & m- Xylenes	100		"	100		100	77.7-127				
p-Isopropyltoluene	48		"	50.0		95.6	75.6-129				
sec-Butylbenzene	47		"	50.0		94.9	71.5-125				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	Limit	Flag
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#### Batch BE20896 - EPA 5030B

##### LCS (BE20896-BS1)

Prepared: 05/22/2012 Analyzed: 05/23/2012

Styrene	47		ug/L	50.0		94.6	77.8-123				
tert-Butylbenzene	50		"	50.0		101	75.9-151				
Tetrachloroethylene	62		"	50.0		124	63.6-167				
Toluene	48		"	50.0		96.1	77-123				
trans-1,2-Dichloroethylene	49		"	50.0		97.6	76.3-139				
trans-1,3-Dichloropropylene	43		"	50.0		86.9	72.5-137				
Trichloroethylene	47		"	50.0		94.7	77.9-130				
Trichlorofluoromethane	48		"	50.0		95.1	57.4-133				
Vinyl Chloride	42		"	50.0		83.3	54.9-124				
Vinyl acetate	33		"	50.0		66.8	70-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	52.5		"	50.0		105	72.6-129				
Surrogate: p-Bromofluorobenzene	49.5		"	50.0		99.0	63.5-145				
Surrogate: Toluene-d8	48.9		"	50.0		97.8	81.2-127				

##### LCS Dup (BE20896-BSD1)

Prepared: 05/22/2012 Analyzed: 05/23/2012

1,1,1,2-Tetrachloroethane	50		ug/L	50.0		100	82.3-130		6.38	21.1	
1,1,1-Trichloroethane	51		"	50.0		101	75.6-137		6.04	19.7	
1,1,2,2-Tetrachloroethane	45		"	50.0		90.8	71.3-131		3.16	20.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		110	71.1-129		5.51	21.7	
1,1,2-Trichloroethane	49		"	50.0		97.8	74.5-129		4.33	20.3	
1,1-Dichloroethane	52		"	50.0		105	79.6-132		4.94	20.6	
1,1-Dichloroethylene	51		"	50.0		103	80.2-146		4.51	20	
1,1-Dichloropropylene	52		"	50.0		105	75-136		5.22	19.3	
1,2,3-Trichlorobenzene	50		"	50.0		101	66.1-136		4.04	21.6	
1,2,3-Trichloropropane	45		"	50.0		89.4	63-131		1.13	23.9	
1,2,4-Trichlorobenzene	51		"	50.0		102	70.6-136		4.68	21.7	
1,2,4-Trimethylbenzene	51		"	50.0		102	75.3-135		5.95	18.8	
1,2-Dibromo-3-chloropropane	37		"	50.0		75.0	58.9-140		1.26	27.7	
1,2-Dibromoethane	53		"	50.0		107	79-130		4.16	23	
1,2-Dichlorobenzene	49		"	50.0		98.0	76.1-122		5.53	19.8	
1,2-Dichloroethane	53		"	50.0		106	74.6-132		4.57	20.2	
1,2-Dichloropropane	51		"	50.0		102	76.9-129		5.87	20.7	
1,3,5-Trimethylbenzene	49		"	50.0		98.2	70.6-127		5.55	18.9	
1,3-Dichlorobenzene	49		"	50.0		98.2	77-124		6.11	19.2	
1,3-Dichloropropane	50		"	50.0		101	75.8-126		4.59	22.1	
1,4-Dichlorobenzene	50		"	50.0		99.2	76.6-125		5.98	18.6	
2,2-Dichloropropane	48		"	50.0		95.4	69-133		3.65	19.8	
2-Butanone	44		"	50.0		87.9	70-130		0.0228	30	
2-Chlorotoluene	48		"	50.0		95.2	66.3-119		6.84	21.6	
4-Chlorotoluene	49		"	50.0		98.5	69.2-127		5.88	19	
Acetone	50		"	50.0		99.3	70-130		4.81	30	
Benzene	53		"	50.0		106	76.2-129		5.33	19	
Bromobenzene	47		"	50.0		93.6	71.3-123		4.84	20.3	
Bromochloromethane	52		"	50.0		104	70.8-137		3.27	23.9	
Bromodichloromethane	51		"	50.0		103	79.7-134		5.44	21	
Bromoform	40		"	50.0		80.1	70.5-141		2.12	21.8	
Bromomethane	55		"	50.0		111	43.9-147		5.33	28.4	
Carbon tetrachloride	51		"	50.0		102	78.1-138		6.37	20.1	
Chlorobenzene	52		"	50.0		104	80.4-125		6.00	19.9	
Chloroethane	52		"	50.0		104	55.8-140		6.35	23.3	
Chloroform	54		"	50.0		108	76.6-133		4.84	20.3	
Chloromethane	40		"	50.0		80.2	48.8-115		4.75	24.5	
cis-1,2-Dichloroethylene	53		"	50.0		106	75.1-128		4.86	20.5	
cis-1,3-Dichloropropylene	45		"	50.0		90.2	74.5-128		5.33	19.9	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BE20896 - EPA 5030B</b>											
<b>LCS Dup (BE20896-BSD1)</b>						Prepared: 05/22/2012 Analyzed: 05/23/2012					
Dibromochloromethane	46		ug/L	50.0		91.7	79.8-134		5.49	21.3	
Dibromomethane	52		"	50.0		103	79-130		4.41	22.4	
Dichlorodifluoromethane	26		"	50.0		52.3	47.1-101		4.14	23.9	
Ethyl Benzene	54		"	50.0		109	80.8-128		6.22	19.2	
Hexachlorobutadiene	48		"	50.0		95.9	64.8-128		5.20	20.6	
Isopropylbenzene	53		"	50.0		106	75.5-135		5.71	20	
Methyl tert-butyl ether (MTBE)	50		"	50.0		100	65.1-140		2.24	23.6	
Methylene chloride	54		"	50.0		109	61.3-120		3.73	20.4	
Naphthalene	47		"	50.0		94.6	62.3-148		4.12	27.1	
n-Butylbenzene	49		"	50.0		98.7	67.2-123		7.09	19.1	
n-Propylbenzene	51		"	50.0		102	70.5-127		5.92	23.4	
o-Xylene	50		"	50.0		101	75.9-122		6.64	19.3	
p- & m- Xylenes	110		"	100		107	77.7-127		6.29	18.6	
p-Isopropyltoluene	51		"	50.0		102	75.6-129		6.22	19.1	
sec-Butylbenzene	50		"	50.0		101	71.5-125		6.11	18.9	
Styrene	50		"	50.0		101	77.8-123		6.17	20.9	
tert-Butylbenzene	52		"	50.0		105	75.9-151		3.98	20.9	
Tetrachloroethylene	68		"	50.0		137	63.6-167		9.69	27.7	
Toluene	51		"	50.0		102	77-123		6.43	18.7	
trans-1,2-Dichloroethylene	51		"	50.0		103	76.3-139		5.23	19.5	
trans-1,3-Dichloropropylene	46		"	50.0		91.6	72.5-137		5.29	19.3	
Trichloroethylene	51		"	50.0		102	77.9-130		7.42	20.5	
Trichlorofluoromethane	50		"	50.0		100	57.4-133		5.54	21.4	
Vinyl Chloride	44		"	50.0		88.0	54.9-124		5.42	22.3	
Vinyl acetate	33		"	50.0		66.9	70-130	Low Bias	0.150	30	
Surrogate: 1,2-Dichloroethane-d4	52.9		"	50.0		106	72.6-129				
Surrogate: p-Bromofluorobenzene	49.5		"	50.0		99.1	63.5-145				
Surrogate: Toluene-d8	49.6		"	50.0		99.2	81.2-127				

**Notes and Definitions**

QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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); therefore, 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/>	
ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
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.



**YORK**

ANALYTICAL LABORATORIES, INC.

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 analysis requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

Page 1 of 3

York Project No. 12ED631

YOUR Information		Report to:	Invoice To:	Your Project ID	Turn-Around Time	Report/Deliverable Type
Mid-Hudson Geosciences	Katherine Beinkafner	American Cleaners	AC Middletown		RUSH-Same Day	Summary Report
Address: 1003 Rt 44/55	Mid-Hudson Geosciences	Mr. Erez Haleviah			RUSH-Next Day	QA Report
Clintondale, NY 12515	1003 Route 44/55	360 Route 211 East	Soil NW of Bldg		RUSH-Two Day	CT RCP
Phone.: 845 883 5726	PO Box 332	Middletown, NY 10940			RUSH-Three Day	CT RCP DQA/DUE Pkg
Contact: Katherine Beinkafner	Clintondale, NY 12515-0332		May 16, 2012		RUSH-Four Day	NY ASP A Package
rockdoctor@optonline.net	rockdoctor@optonline.net	ErezG19@gmail.com	Samples from NY		Standard (5-7 day)	NY ASP B Package
<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>						
<div><div>Katherine Beinkafner</div><div>Samples Collected/Authorized By (Signature)</div><div>Katherine J. Beinkafner</div><div>Name (printed)</div></div>						
Matrix		Analysis Requested (List above includes common analysis)		Container Description		
ACMS 1	Soil	8260B full plus MTBE		2 oz glass jar		
ACMS 2	Soil	8260B full plus MTBE		2 oz glass jar		
ACMS 3	Soil	8260B full plus MTBE		2 oz glass jar		
ACMS 4	Soil	8260B full plus MTBE		2 oz glass jar		
ACMS 5	Soil	8260B full plus MTBE		2 oz glass jar		
ACMS 6	Soil	8260B full plus MTBE		2 oz glass jar		
ACMS 7	Soil	8260B full plus MTBE		2 oz glass jar		
ACMS 8	Soil	8260B full plus MTBE		2 oz glass jar		
ACMS 9	Soil	8260B full plus MTBE		2 oz glass jar		
<b>Comments:</b> I Like the new XS Analyzer						
Preservation (check all applicable)		4°C		HNO <sub>3</sub> H <sub>2</sub> O <sub>2</sub> NaOH		
Special Instructions		Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>		Temperature on Receipt		
Samples Relinquished By		Date/Time		Date/Time		
Samples Relinquished By		Date/Time		Date/Time		
Samples Relinquished By		Date/Time		Date/Time		



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

## Field Chain-of-Custody Record

Page 2 of 2

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York Project No. 6230631

YOUR INFORMATION		Report to:	Invoice To:	Your Project ID	Turn-Around Time	Report/Deliverable Type
Mid-Hudson Geosciences	Katherine Beinkafner	Katherine Beinkafner	American Cleaners	ACMiddletown	RUSH-Same Day	Summary Report
Address: 1003 Rt 44/55	Mid-Hudson Geosciences	Mr. Erez Haleviah			RUSH-Next Day	QA Report
Clintondale, NY 12515	1003 Route 44/55	360 Route 211 East	Soil NW of Bldg		RUSH-Two Day	CT RCP
Phone: 845 883 5726	PO Box 332	Middletown, NY 10940			RUSH-Three Day	CT RCP DQA/DUE Pkg
Contact: Katherine Beinkafner	Clintondale, NY 12515-0332		May 16, 2012		RUSH-Four Day	NY ASP A Package
rockdoctor@optonline.net	rockdoctor@optonline.net	ErezG19@gmail.com	Samples from NY	yes	Standard (5-7 day)	NY ASP B Package
<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> <p><i>Katherine Beinkafner</i>            Samples Collected/Authorized By (Signature)  <i>Katherine J. Beinkafner</i>            Name (printed)</p>						
Sample Identification		Date/Time Sampled	Matrix	Analysis Requested (List above includes common analysis)		Container Description
ACMS 10	5/16/12 15:00	Soil	8260B full plus MTBE			2 oz glass jar
ACMS 11	5/16/13 15:15	Soil	8260B full plus MTBE			2 oz glass jar
<p><b>Comments:</b></p> <p>Preservation (check all applicable) 4°C _____ Frozen _____ HCl _____ MeOH _____ HNO<sub>3</sub> _____ H<sub>2</sub>SO<sub>4</sub> _____ NaOH _____</p> <p>Special Instructions: Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/></p> <p>Samples Relinquished By <i>Katherine Beinkafner</i> Date/Time <i>5/17/12 11:45AM</i> Samples Received By <i>Cherie C</i> Date/Time <i>5-17-12 13:30</i></p> <p>Samples Relinquished By _____ Date/Time _____ Samples Received in LAB by _____ Date/Time _____</p> <p>Temperature on Receipt <i>4-0°C</i></p>						



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.

# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 08/06/2012  
**Client Project ID: ACMiddletown Re-Eval**  
York Project (SDG) No.: 12G0902

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 08/06/2012  
Client Project ID: ACMiddletown Re-Eval  
York Project (SDG) No.: 12G0902

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

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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 30, 2012 and listed below. The project was identified as your project: **ACMiddletown Re-Eval**.

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>
12G0902-01	ACMS 16S	Soil	07/25/2012	07/30/2012
12G0902-02	ACMS 15S	Soil	07/25/2012	07/30/2012
12G0902-03	ACMS 14S	Soil	07/25/2012	07/30/2012
12G0902-04	ACMS 12S	Soil	07/25/2012	07/30/2012
12G0902-05	ACMS 13S	Soil	07/25/2012	07/30/2012
12G0902-06	ACMS 17S	Soil	07/25/2012	07/30/2012
12G0902-07	ACMS 18S	Soil	07/25/2012	07/30/2012
12G0902-08	ACMS 16D	Soil	07/25/2012	07/30/2012
12G0902-09	ACMS 15D	Soil	07/25/2012	07/30/2012
12G0902-10	ACMS 14D	Soil	07/25/2012	07/30/2012
12G0902-11	ACMS 12D	Soil	07/25/2012	07/30/2012
12G0902-12	ACMS 13D	Soil	07/25/2012	07/30/2012
12G0902-13	ACMS 17D	Soil	07/25/2012	07/30/2012
12G0902-14	ACMS 18D	Soil	07/25/2012	07/30/2012
12G0902-15	Trip Blank	Water	07/25/2012	07/30/2012
12G0902-16	Equipment Blank	Water	07/25/2012	07/30/2012

## **General Notes for York Project (SDG) No.: 12G0902**

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:** 08/06/2012

Robert Q. Bradley  
Executive Vice President / Laboratory Director

**YORK**

### Sample Information

**Client Sample ID:** ACMS 16S

**York Sample ID:** 12G0902-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12G0902

ACMiddletown Re-Eval

Soil

July 25, 2012 8:55 am

07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.75	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.35	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.81	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.53	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.44	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.49	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.57	11	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.76	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.72	11	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.58	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	11	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.42	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.46	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.54	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.43	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.48	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.62	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.69	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.77	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	14	54	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.50	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.94	11	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.43	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.55	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
67-64-1	Acetone	14		ug/kg dry	7.1	11	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
71-43-2	Benzene	ND		ug/kg dry	0.53	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.70	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.42	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.79	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
75-25-2	Bromoform	ND		ug/kg dry	0.50	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS



### Sample Information

**Client Sample ID:** ACMS 16S

**York Sample ID:** 12G0902-01

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 8:55 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.52	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.53	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.59	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
67-66-3	Chloroform	ND		ug/kg dry	0.54	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.59	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.31	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.49	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.62	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.68	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.49	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.31	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.73	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.57	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.39	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
75-09-2	Methylene chloride	14	B	ug/kg dry	0.96	11	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
91-20-3	Naphthalene	1.8	J	ug/kg dry	1.2	11	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.47	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.45	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.39	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.33	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.50	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
100-42-5	Styrene	ND		ug/kg dry	0.35	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.50	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
127-18-4	Tetrachloroethylene	170		ug/kg dry	0.57	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
108-88-3	Toluene	ND		ug/kg dry	0.41	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.56	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.55	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
79-01-6	Trichloroethylene	1.5	J	ug/kg dry	0.53	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.38	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	0.97	11	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.29	5.4	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.64	16	1	EPA SW846-8260B	08/01/2012 11:03	08/01/2012 12:56	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								

### Sample Information

**Client Sample ID:** ACMS 16S

**York Sample ID:** 12G0902-01

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 8:55 am

Date Received  
07/30/2012

#### **Volatile Organics, 8260 List**

#### **Log-in Notes:**

#### **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %			72.6-129						
460-00-4	Surrogate: p-Bromofluorobenzene	114 %			63.5-145						
2037-26-5	Surrogate: Toluene-d8	103 %			81.2-127						

#### **Total Solids**

#### **Log-in Notes:**

#### **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	93.3		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 15S

**York Sample ID:** 12G0902-02

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:10 am

Date Received  
07/30/2012

#### **Volatile Organics, 8260 List**

#### **Log-in Notes:**

#### **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.77	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.36	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.83	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.45	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.59	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.78	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.74	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.60	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.5	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.43	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.48	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.44	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.49	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.64	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS

### Sample Information

**Client Sample ID:** ACMS 15S

**York Sample ID:** 12G0902-02

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:10 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.71	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.79	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	55	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.97	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.44	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.56	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
67-64-1	Acetone	28		ug/kg dry	7.3	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
71-43-2	Benzene	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.72	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.43	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.82	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
75-25-2	Bromoform	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.61	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
67-66-3	Chloroform	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.61	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
156-59-2	cis-1,2-Dichloroethylene	1.8	J	ug/kg dry	0.32	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.50	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.64	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.70	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.32	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.75	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.58	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.41	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
75-09-2	Methylene chloride	4.9	J, B	ug/kg dry	0.99	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.48	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.46	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.40	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS

### Sample Information

**Client Sample ID:** ACMS 15S

**York Sample ID:** 12G0902-02

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:10 am

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.34	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
100-42-5	Styrene	ND		ug/kg dry	0.37	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
127-18-4	Tetrachloroethylene	2.9	J	ug/kg dry	0.59	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
108-88-3	Toluene	ND		ug/kg dry	0.42	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.57	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.57	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
79-01-6	Trichloroethylene	1.0	J	ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.39	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.30	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.66	17	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 13:32	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	103 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	98.3 %		81.2-127							

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	90.7		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 14S

**York Sample ID:** 12G0902-03

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:35 am

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.74	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.35	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.80	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS

### Sample Information

**Client Sample ID:** ACMS 14S

**York Sample ID:** 12G0902-03

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:35 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.53	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.44	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.49	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.57	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.76	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.72	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.58	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.42	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.46	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.54	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.43	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.48	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.62	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.68	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.77	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	14	53	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.50	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.94	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.43	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.54	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
67-64-1	Acetone	ND		ug/kg dry	7.1	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
71-43-2	Benzene	ND		ug/kg dry	0.53	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.69	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.42	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.79	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
75-25-2	Bromoform	ND		ug/kg dry	0.50	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.52	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.52	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.59	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
67-66-3	Chloroform	ND		ug/kg dry	0.54	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.59	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
156-59-2	cis-1,2-Dichloroethylene	3.0	J	ug/kg dry	0.31	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS



### Sample Information

**Client Sample ID:** ACMS 14S

**York Sample ID:** 12G0902-03

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:35 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.49	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.62	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.67	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.49	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.31	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.73	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.56	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.39	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
75-09-2	Methylene chloride	8.4	J, B	ug/kg dry	0.96	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.47	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.45	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.39	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.99	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.33	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.50	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
100-42-5	Styrene	ND		ug/kg dry	0.35	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.50	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
127-18-4	Tetrachloroethylene	22		ug/kg dry	0.57	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
108-88-3	Toluene	ND		ug/kg dry	0.41	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.56	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.55	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
79-01-6	Trichloroethylene	7.6		ug/kg dry	0.53	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.38	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	0.96	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.29	5.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.63	16	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:07	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	105 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	105 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	97.7 %	81.2-127								

### Sample Information

**Client Sample ID:** ACMS 14S

**York Sample ID:** 12G0902-03

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:35 am

Date Received  
07/30/2012

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	93.6		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 12S

**York Sample ID:** 12G0902-04

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 11:25 am

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.79	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.37	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.85	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.56	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.46	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.60	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.80	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.76	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.61	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.5	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.44	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.49	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.57	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.45	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.50	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.65	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.72	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.81	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	56	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.53	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.99	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS

### Sample Information

**Client Sample ID:** ACMS 12S

**York Sample ID:** 12G0902-04

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 11:25 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.45	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.57	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
67-64-1	Acetone	ND		ug/kg dry	7.4	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
71-43-2	Benzene	ND		ug/kg dry	0.55	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.73	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.44	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.84	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
75-25-2	Bromoform	ND		ug/kg dry	0.53	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.3	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.55	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.55	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.63	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
67-66-3	Chloroform	ND		ug/kg dry	0.57	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.62	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
156-59-2	cis-1,2-Dichloroethylene	2.3	J	ug/kg dry	0.33	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.51	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.65	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.71	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.33	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.77	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.60	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.41	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
75-09-2	Methylene chloride	10	J, B	ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.49	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.47	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.41	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.34	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.53	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
100-42-5	Styrene	ND		ug/kg dry	0.37	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.53	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
127-18-4	Tetrachloroethylene	3900		ug/kg dry	60	560	100	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS

### Sample Information

**Client Sample ID:** ACMS 12S

**York Sample ID:** 12G0902-04

York Project (SDG) No.

Client Project ID

Matrix

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12G0902

ACMiddletown Re-Eval

Soil

July 25, 2012 11:25 am

07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	0.43	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.59	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.58	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
79-01-6	Trichloroethylene	47		ug/kg dry	0.56	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.40	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.31	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.67	17	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 14:43	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	105 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	90.6 %		81.2-127							

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	88.7		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 13S

**York Sample ID:** 12G0902-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12G0902

ACMiddletown Re-Eval

Soil

July 25, 2012 11:42 am

07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.74	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.35	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.79	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.53	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.43	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.49	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.56	11	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.75	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS

### Sample Information

**Client Sample ID:** ACMS 13S

**York Sample ID:** 12G0902-05

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

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Soil

Collection Date/Time  
July 25, 2012 11:42 am

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07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.71	11	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
95-63-6	1,2,4-Trimethylbenzene	2.1	J	ug/kg dry	0.57	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	11	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.42	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.46	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.53	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.42	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.47	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.61	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.68	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.76	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	14	53	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.49	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.93	11	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.43	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.54	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
67-64-1	Acetone	24		ug/kg dry	7.0	11	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
71-43-2	Benzene	ND		ug/kg dry	0.52	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.68	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.41	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.78	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
75-25-2	Bromoform	ND		ug/kg dry	0.50	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.51	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.52	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.59	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
67-66-3	Chloroform	ND		ug/kg dry	0.53	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.58	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.31	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.48	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.61	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.67	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.48	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.31	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS



### Sample Information

**Client Sample ID:** ACMS 13S

**York Sample ID:** 12G0902-05

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 11:42 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.72	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.56	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.39	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
75-09-2	Methylene chloride	17	B	ug/kg dry	0.95	11	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	11	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.46	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.44	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
95-47-6	o-Xylene	0.87	J	ug/kg dry	0.39	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
1330-20-7P/M	p- & m- Xylenes	2.8	J	ug/kg dry	0.98	11	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.32	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.49	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
100-42-5	Styrene	ND		ug/kg dry	0.35	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.49	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
127-18-4	Tetrachloroethylene	42		ug/kg dry	0.56	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
108-88-3	Toluene	1.3	J	ug/kg dry	0.41	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.55	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.55	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
79-01-6	Trichloroethylene	2.1	J	ug/kg dry	0.52	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.37	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	0.95	11	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.29	5.3	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
1330-20-7	Xylenes, Total	3.7	J	ug/kg dry	0.63	16	1	EPA SW846-8260B	08/03/2012 13:03	08/03/2012 14:16	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	101 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	96.7 %	81.2-127								

### Sample Information

<b><u>Client Sample ID:</u></b> ACMS 13S			<b><u>York Sample ID:</u></b> 12G0902-05	
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12G0902	ACMiddletown Re-Eval	Soil	July 25, 2012 11:42 am	07/30/2012

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	94.8		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

<b><u>Client Sample ID:</u></b> ACMS 17S			<b><u>York Sample ID:</u></b> 12G0902-06	
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12G0902	ACMiddletown Re-Eval	Soil	July 25, 2012 12:15 pm	07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.76	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.36	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.83	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.45	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.58	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.78	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.73	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.60	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.5	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.43	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.47	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.44	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.49	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.63	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.70	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.79	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	14	55	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.96	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS

### Sample Information

**Client Sample ID:** ACMS 17S

**York Sample ID:** 12G0902-06

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:15 pm

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.44	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.56	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
67-64-1	Acetone	ND		ug/kg dry	7.2	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
71-43-2	Benzene	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.71	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.43	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.81	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
75-25-2	Bromoform	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.61	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
67-66-3	Chloroform	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.60	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.32	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.50	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.63	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.69	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.50	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.32	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.75	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.58	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.40	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
75-09-2	Methylene chloride	3.2	B, J	ug/kg dry	0.99	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.48	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.46	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.40	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.33	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
100-42-5	Styrene	ND		ug/kg dry	0.36	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.59	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS

### Sample Information

**Client Sample ID:** ACMS 17S

**York Sample ID:** 12G0902-06

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:15 pm

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	0.42	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.57	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.57	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.39	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	0.99	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.30	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.65	16	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 15:54	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	103 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	99.4 %		81.2-127							

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	91.2		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 18S

**York Sample ID:** 12G0902-07

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:36 pm

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.77	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.36	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.83	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.45	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.59	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.78	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS

### Sample Information

**Client Sample ID:** ACMS 18S

**York Sample ID:** 12G0902-07

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:36 pm

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.74	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.60	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.5	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.44	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.48	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.56	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.44	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.49	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.64	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.71	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.80	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	55	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.97	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.45	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.56	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
67-64-1	Acetone	ND		ug/kg dry	7.3	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
71-43-2	Benzene	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.72	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.43	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.82	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
75-25-2	Bromoform	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.61	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
67-66-3	Chloroform	ND		ug/kg dry	0.56	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.61	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.32	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.64	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.70	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.32	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS

## Sample Information

**Client Sample ID:** ACMS 18S

**York Sample ID:** 12G0902-07

**York Project (SDG) No.**  
12G0902

**Client Project ID**  
ACMiddletown Re-Eval

**Matrix**  
Soil

**Collection Date/Time**  
July 25, 2012 12:36 pm

**Date Received**  
07/30/2012

### Volatile Organics, 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.75	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.58	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.41	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
75-09-2	Methylene chloride	2.8	B, J	ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.49	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.46	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.41	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.34	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
100-42-5	Styrene	ND		ug/kg dry	0.37	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.59	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
108-88-3	Toluene	ND		ug/kg dry	0.43	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.58	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.57	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.39	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.30	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.66	17	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 16:30	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.1 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	105 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	99.5 %	81.2-127								



### Sample Information

**Client Sample ID:** ACMS 18S

**York Sample ID:** 12G0902-07

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:36 pm

Date Received  
07/30/2012

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	90.3		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 16D

**York Sample ID:** 12G0902-08

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 8:55 am

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.78	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.37	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.84	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.56	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.46	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.60	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.79	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.75	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.61	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.5	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.44	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.48	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.56	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.45	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.50	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.65	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.72	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.80	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	56	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.98	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS

### Sample Information

**Client Sample ID:** ACMS 16D

**York Sample ID:** 12G0902-08

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 8:55 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.45	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.57	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
67-64-1	Acetone	12		ug/kg dry	7.4	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
71-43-2	Benzene	ND		ug/kg dry	0.55	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.73	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.44	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.83	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
75-25-2	Bromoform	ND		ug/kg dry	0.53	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.55	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.55	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.62	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
67-66-3	Chloroform	ND		ug/kg dry	0.56	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.61	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.32	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.51	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.65	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.71	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.51	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.33	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.76	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.59	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.41	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
75-09-2	Methylene chloride	1.8	B, J	ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.49	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.47	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.41	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.34	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
100-42-5	Styrene	ND		ug/kg dry	0.37	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
127-18-4	Tetrachloroethylene	61		ug/kg dry	0.60	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS

### Sample Information

**Client Sample ID:** ACMS 16D

**York Sample ID:** 12G0902-08

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 8:55 am

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	0.43	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.58	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.58	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.55	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.40	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.31	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.66	17	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:06	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.4 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	106 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	99.6 %		81.2-127							

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	89.4		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 15D

**York Sample ID:** 12G0902-09

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:10 am

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.88	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.16	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.3	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.41	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.95	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.63	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.52	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.58	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.68	13	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.90	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS

### Sample Information

**Client Sample ID:** ACMS 15D

**York Sample ID:** 12G0902-09

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:10 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.85	13	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.69	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.7	13	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.50	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.55	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.64	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.51	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.56	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.73	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.81	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.91	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	17	63	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.59	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.1	13	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.51	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.64	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
67-64-1	Acetone	79		ug/kg dry	8.4	13	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
71-43-2	Benzene	ND		ug/kg dry	0.62	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.82	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.50	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.94	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
75-25-2	Bromoform	ND		ug/kg dry	0.60	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.4	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.62	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.62	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.70	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
67-66-3	Chloroform	ND		ug/kg dry	0.64	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.70	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.37	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.58	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.73	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.80	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.58	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.37	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS

## Sample Information

**Client Sample ID:** ACMS 15D

**York Sample ID:** 12G0902-09

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:10 am

Date Received  
07/30/2012

### Volatile Organics, 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.86	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.67	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.47	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
75-09-2	Methylene chloride	4.0	B, J	ug/kg dry	1.1	13	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.4	13	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.55	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.53	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.46	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.2	13	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.39	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.59	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
100-42-5	Styrene	ND		ug/kg dry	0.42	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.59	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
127-18-4	Tetrachloroethylene	1.1	J	ug/kg dry	0.68	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
108-88-3	Toluene	ND		ug/kg dry	0.49	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
156-60-5	trans-1,2-Dichloroethylene	1.3	J	ug/kg dry	0.66	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.65	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.62	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.45	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	1.1	13	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.35	6.3	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.75	19	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 17:42	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.6 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	124 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	103 %	81.2-127								

### Sample Information

**Client Sample ID:** ACMS 15D

**York Sample ID:** 12G0902-09

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:10 am

Date Received  
07/30/2012

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	78.9		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 14D

**York Sample ID:** 12G0902-10

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:35 am

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.97	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.18	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.4	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.45	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.0	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.69	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.57	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.64	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.74	14	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.98	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.93	14	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.75	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.9	14	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.55	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.60	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.70	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.56	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.62	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.80	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.89	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.0	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	18	69	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.65	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.2	14	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS



### Sample Information

**Client Sample ID:** ACMS 14D

**York Sample ID:** 12G0902-10

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 9:35 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.56	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.71	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
67-64-1	Acetone	9.3	J	ug/kg dry	9.2	14	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
71-43-2	Benzene	ND		ug/kg dry	0.68	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.90	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.54	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.0	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
75-25-2	Bromoform	ND		ug/kg dry	0.65	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.5	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.68	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.68	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.77	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
67-66-3	Chloroform	ND		ug/kg dry	0.70	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.76	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
156-59-2	cis-1,2-Dichloroethylene	33		ug/kg dry	0.40	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.63	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.80	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.88	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.64	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.40	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.94	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.73	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.51	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
75-09-2	Methylene chloride	2.4	J, B	ug/kg dry	1.2	14	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.5	14	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.61	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.58	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.51	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.3	14	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.42	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.65	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
100-42-5	Styrene	ND		ug/kg dry	0.46	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.65	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
127-18-4	Tetrachloroethylene	23		ug/kg dry	0.74	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS

### Sample Information

**Client Sample ID:** ACMS 14D

**York Sample ID:** 12G0902-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12G0902

ACMiddletown Re-Eval

Soil

July 25, 2012 9:35 am

07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	0.53	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.72	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.72	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
79-01-6	Trichloroethylene	24		ug/kg dry	0.68	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.49	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	1.3	14	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.38	6.9	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.82	21	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:19	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	104 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	96.8 %		81.2-127							

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	72.1		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 12D

**York Sample ID:** 12G0902-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12G0902

ACMiddletown Re-Eval

Soil

July 25, 2012 11:25 am

07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.78	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.36	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.84	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.56	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.46	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.51	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.59	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.79	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS

### Sample Information

**Client Sample ID:** ACMS 12D

**York Sample ID:** 12G0902-11

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 11:25 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.75	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.61	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.5	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.44	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.48	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.56	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.45	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.50	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.64	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.72	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.80	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	56	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.98	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.45	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.57	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
67-64-1	Acetone	8.3	J	ug/kg dry	7.4	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
71-43-2	Benzene	ND		ug/kg dry	0.55	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.72	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.44	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.83	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
75-25-2	Bromoform	ND		ug/kg dry	0.53	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.54	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.55	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.62	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
67-66-3	Chloroform	ND		ug/kg dry	0.56	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.61	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
156-59-2	cis-1,2-Dichloroethylene	13		ug/kg dry	0.32	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.51	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.64	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.70	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.51	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.32	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS

### Sample Information

**Client Sample ID:** ACMS 12D

**York Sample ID:** 12G0902-11

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 11:25 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.76	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.59	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.41	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
75-09-2	Methylene chloride	1.8	J, B	ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.49	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.47	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.41	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.34	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
100-42-5	Styrene	ND		ug/kg dry	0.37	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.52	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
127-18-4	Tetrachloroethylene	210		ug/kg dry	0.60	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
108-88-3	Toluene	ND		ug/kg dry	0.43	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.58	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.58	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
79-01-6	Trichloroethylene	8.0		ug/kg dry	0.55	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.39	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.30	5.6	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.66	17	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 18:55	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	103 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	95.6 %	81.2-127								

### Sample Information

**Client Sample ID:** ACMS 12D

**York Sample ID:** 12G0902-11

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 11:25 am

Date Received  
07/30/2012

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	89.6		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 13D

**York Sample ID:** 12G0902-12

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 11:42 am

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.77	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.36	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.83	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.45	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.59	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.78	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.74	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.60	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.5	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.44	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.48	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.56	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.44	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.49	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.64	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.71	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.80	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	55	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.97	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS

### Sample Information

**Client Sample ID:** ACMS 13D

**York Sample ID:** 12G0902-12

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 11:42 am

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.45	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.56	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
67-64-1	Acetone	13		ug/kg dry	7.3	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
71-43-2	Benzene	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.72	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.43	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.82	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
75-25-2	Bromoform	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.62	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
67-66-3	Chloroform	ND		ug/kg dry	0.56	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.61	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.32	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.64	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.70	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.32	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.75	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.59	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.41	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
75-09-2	Methylene chloride	5.0	J, B	ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.49	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.46	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.41	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.34	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
100-42-5	Styrene	ND		ug/kg dry	0.37	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
127-18-4	Tetrachloroethylene	7.3		ug/kg dry	0.59	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS



### Sample Information

**Client Sample ID:** ACMS 13D

**York Sample ID:** 12G0902-12

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 11:42 am

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	0.43	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.58	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.57	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.39	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.30	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.66	17	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 19:31	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	100 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	96.5 %		81.2-127							

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	90.2		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 17D

**York Sample ID:** 12G0902-13

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:15 pm

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.77	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.36	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.83	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.45	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.59	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.78	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS

### Sample Information

**Client Sample ID:** ACMS 17D

**York Sample ID:** 12G0902-13

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:15 pm

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.74	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.60	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.5	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.43	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.48	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.44	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.49	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.64	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.70	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.79	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	55	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.97	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.44	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.56	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
67-64-1	Acetone	ND		ug/kg dry	7.3	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
71-43-2	Benzene	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.71	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.43	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.81	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
75-25-2	Bromoform	ND		ug/kg dry	0.52	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.61	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
67-66-3	Chloroform	ND		ug/kg dry	0.55	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.60	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.32	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.50	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.64	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.69	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.50	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.32	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS

## Sample Information

**Client Sample ID:** ACMS 17D

**York Sample ID:** 12G0902-13

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:15 pm

Date Received  
07/30/2012

### Volatile Organics, 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.75	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.58	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.40	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
75-09-2	Methylene chloride	3.2	J, B	ug/kg dry	0.99	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.48	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.46	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.40	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.34	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
100-42-5	Styrene	ND		ug/kg dry	0.36	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.51	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.59	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
108-88-3	Toluene	ND		ug/kg dry	0.42	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.57	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.57	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.54	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.39	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	0.99	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.30	5.5	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.65	16	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:07	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.0 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	103 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	98.0 %	81.2-127								

### Sample Information

**Client Sample ID:** ACMS 17D

**York Sample ID:** 12G0902-13

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:15 pm

Date Received  
07/30/2012

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	90.9		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** ACMS 18D

**York Sample ID:** 12G0902-14

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:36 pm

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.80	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.37	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.86	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.57	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.47	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.53	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.61	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.81	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.76	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.62	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.5	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.45	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.49	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.57	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.46	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.51	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.66	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.73	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.82	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	57	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.53	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS

### Sample Information

**Client Sample ID:** ACMS 18D

**York Sample ID:** 12G0902-14

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:36 pm

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.46	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.58	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
67-64-1	Acetone	26		ug/kg dry	7.5	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
71-43-2	Benzene	ND		ug/kg dry	0.56	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.74	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.45	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.85	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
75-25-2	Bromoform	ND		ug/kg dry	0.54	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.3	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.56	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.56	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.63	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
67-66-3	Chloroform	ND		ug/kg dry	0.57	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.63	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.33	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.52	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.66	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.72	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.52	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.33	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.78	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.60	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.42	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
75-09-2	Methylene chloride	2.7	J, B	ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.50	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.48	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.42	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.1	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.35	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.53	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
100-42-5	Styrene	ND		ug/kg dry	0.38	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.53	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.61	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS

### Sample Information

**Client Sample ID:** ACMS 18D

**York Sample ID:** 12G0902-14

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Soil

Collection Date/Time  
July 25, 2012 12:36 pm

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	0.44	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.59	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.59	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.56	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.40	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.31	5.7	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.68	17	1	EPA SW846-8260B	08/01/2012 13:03	08/01/2012 20:43	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	106 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	100 %		81.2-127							

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	87.6		%	0.100	0.100	1	SM 2540G	08/01/2012 14:26	08/01/2012 14:26	JCC

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12G0902-15

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Water

Collection Date/Time  
July 25, 2012 3:00 pm

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS



### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12G0902-15

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Water

Collection Date/Time  
July 25, 2012 3:00 pm

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
67-64-1	Acetone	9.8	J	ug/L	6.1	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12G0902-15

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Water

Collection Date/Time  
July 25, 2012 3:00 pm

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
91-20-3	Naphthalene	1.2	J	ug/L	1.2	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:11	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.1 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	102 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	100 %	81.2-127								

### Sample Information

**Client Sample ID:** Equipment Blank

**York Sample ID:** 12G0902-16

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Water

Collection Date/Time  
July 25, 2012 3:00 pm

Date Received  
07/30/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

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

**Client Sample ID:**    **Equipment Blank**

**York Sample ID:**    **12G0902-16**

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Water

Collection Date/Time  
July 25, 2012    3:00 pm

Date Received  
07/30/2012

### Volatile Organics, 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
67-64-1	Acetone	8.8	J	ug/L	6.1	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS

### Sample Information

**Client Sample ID:**    **Equipment Blank**

**York Sample ID:**    **12G0902-16**

York Project (SDG) No.  
12G0902

Client Project ID  
ACMiddletown Re-Eval

Matrix  
Water

Collection Date/Time  
July 25, 2012    3:00 pm

Date Received  
07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	08/01/2012 14:48	08/02/2012 02:47	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.4 %	72.6-129								

**Sample Information**

**Client Sample ID:**    **Equipment Blank**

**York Sample ID:**    **12G0902-16**

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12G0902

ACMiddletown Re-Eval

Water

July 25, 2012   3:00 pm

07/30/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	102 %			63.5-145						
2037-26-5	Surrogate: Toluene- <i>d</i> 8	99.0 %			81.2-127						

## Analytical Batch Summary

**Batch ID:** BG21292      **Preparation Method:** EPA 5035B      **Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
12G0902-01	ACMS 16S	08/01/12
12G0902-02	ACMS 15S	08/01/12
12G0902-03	ACMS 14S	08/01/12
12G0902-06	ACMS 17S	08/01/12
12G0902-07	ACMS 18S	08/01/12
12G0902-08	ACMS 16D	08/01/12
12G0902-09	ACMS 15D	08/01/12
12G0902-10	ACMS 14D	08/01/12
12G0902-11	ACMS 12D	08/01/12
12G0902-12	ACMS 13D	08/01/12
12G0902-13	ACMS 17D	08/01/12
12G0902-14	ACMS 18D	08/01/12
BG21292-BLK1	Blank	08/01/12
BG21292-BS1	LCS	08/01/12
BG21292-BSD1	LCS Dup	08/01/12
BG21292-MS1	Matrix Spike	08/01/12
BG21292-MSD1	Matrix Spike Dup	08/01/12

**Batch ID:** BH20021      **Preparation Method:** % Solids Prep      **Prepared By:** JCC

YORK Sample ID	Client Sample ID	Preparation Date
12G0902-01	ACMS 16S	08/01/12
12G0902-02	ACMS 15S	08/01/12
12G0902-03	ACMS 14S	08/01/12
12G0902-04	ACMS 12S	08/01/12
12G0902-05	ACMS 13S	08/01/12
12G0902-06	ACMS 17S	08/01/12
12G0902-07	ACMS 18S	08/01/12
12G0902-08	ACMS 16D	08/01/12
12G0902-09	ACMS 15D	08/01/12
12G0902-10	ACMS 14D	08/01/12
12G0902-11	ACMS 12D	08/01/12
12G0902-12	ACMS 13D	08/01/12
12G0902-13	ACMS 17D	08/01/12
12G0902-14	ACMS 18D	08/01/12

**Batch ID:** BH20043      **Preparation Method:** EPA 5030B      **Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
12G0902-15	Trip Blank	08/01/12
12G0902-16	Equipment Blank	08/01/12
BH20043-BLK1	Blank	08/01/12
BH20043-BS1	LCS	08/01/12
BH20043-BSD1	LCS Dup	08/01/12

**Batch ID:** BH20134      **Preparation Method:** EPA 5035B      **Prepared By:** AY



YORK Sample ID	Client Sample ID	Preparation Date
12G0902-04	ACMS 12S	08/01/12
12G0902-05	ACMS 13S	08/03/12
BH20134-BLK1	Blank	08/03/12
BH20134-BS1	LCS	08/03/12
BH20134-BSD1	LCS Dup	08/03/12

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG21292 - EPA 5035B**

**Blank (BG21292-BLK1)**

Prepared & Analyzed: 08/01/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	50	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	10	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylene chloride	1.5	10	"
Naphthalene	ND	10	"
n-Butylbenzene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
o-Xylene	ND	5.0	"
p- & m- Xylenes	ND	10	"
p-Isopropyltoluene	ND	5.0	"

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG21292 - EPA 5035B**

**Blank (BG21292-BLK1)**

Prepared & Analyzed: 08/01/2012

sec-Butylbenzene	ND	5.0	ug/kg wet								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>48.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.8</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.4</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>98.1</i>	<i>81.2-127</i>				

**LCS (BG21292-BS1)**

Prepared & Analyzed: 08/01/2012

1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	71.7-135				
1,1,1-Trichloroethane	52		"	50.0		104	72.6-137				
1,1,2,2-Tetrachloroethane	53		"	50.0		107	65.4-135				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0		99.2	67.8-129				
1,1,2-Trichloroethane	49		"	50.0		98.5	68.6-132				
1,1-Dichloroethane	54		"	50.0		108	71.7-131				
1,1-Dichloroethylene	56		"	50.0		112	74.4-148				
1,1-Dichloropropylene	52		"	50.0		104	72.5-135				
1,2,3-Trichlorobenzene	52		"	50.0		103	62.7-139				
1,2,3-Trichloropropane	53		"	50.0		106	61.7-131				
1,2,4-Trichlorobenzene	49		"	50.0		98.4	65-139				
1,2,4-Trimethylbenzene	54		"	50.0		107	73.1-136				
1,2-Dibromo-3-chloropropane	49		"	50.0		97.3	53.3-149				
1,2-Dibromoethane	51		"	50.0		102	72.7-134				
1,2-Dichlorobenzene	50		"	50.0		101	71.6-125				
1,2-Dichloroethane	52		"	50.0		105	68.7-136				
1,2-Dichloropropane	49		"	50.0		98.9	68.2-136				
1,3,5-Trimethylbenzene	51		"	50.0		103	69.7-127				
1,3-Dichlorobenzene	50		"	50.0		99.7	69.8-129				
1,3-Dichloropropane	50		"	50.0		99.5	69.3-132				
1,4-Dichlorobenzene	51		"	50.0		102	71.3-129				
1,4-Dioxane	71		"	2000		3.57	70-130	Low Bias			
2,2-Dichloropropane	52		"	50.0		105	65.5-131				
2-Butanone	50		"	50.0		101	70-130				
2-Chlorotoluene	48		"	50.0		95.0	64.2-120				
4-Chlorotoluene	50		"	50.0		99.8	68.8-129				
Acetone	41		"	50.0		81.2	70-130				
Benzene	52		"	50.0		105	70.4-128				
Bromobenzene	49		"	50.0		97.3	66.8-127				
Bromochloromethane	50		"	50.0		100	71.6-133				
Bromodichloromethane	51		"	50.0		102	70.6-136				
Bromoform	51		"	50.0		101	63.2-139				
Bromomethane	49		"	50.0		98.9	50.2-135				
Carbon tetrachloride	53		"	50.0		106	71.9-140				
Chlorobenzene	50		"	50.0		100	76.4-127				
Chloroethane	50		"	50.0		100	50.8-142				
Chloroform	51		"	50.0		102	73.6-132				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG21292 - EPA 5035B**

**LCS (BG21292-BS1)**

Prepared & Analyzed: 08/01/2012

Chloromethane	45		ug/L	50.0		89.7	32.9-131				
cis-1,2-Dichloroethylene	52		"	50.0		104	69.5-128				
cis-1,3-Dichloropropylene	51		"	50.0		102	66.6-129				
Dibromochloromethane	52		"	50.0		104	71.4-135				
Dibromomethane	51		"	50.0		101	72.3-133				
Dichlorodifluoromethane	42		"	50.0		83.8	39.4-108				
Ethyl Benzene	51		"	50.0		101	75.2-131				
Hexachlorobutadiene	49		"	50.0		98.5	60.5-130				
Isopropylbenzene	54		"	50.0		107	73.7-136				
Methyl tert-butyl ether (MTBE)	52		"	50.0		105	56.5-140				
Methylene chloride	54		"	50.0		109	58.4-120				
Naphthalene	54		"	50.0		108	55.2-150				
n-Butylbenzene	49		"	50.0		97.4	63.7-125				
n-Propylbenzene	50		"	50.0		99.1	67.8-128				
o-Xylene	48		"	50.0		96.3	70.4-126				
p- & m- Xylenes	100		"	100		101	73.8-130				
p-Isopropyltoluene	53		"	50.0		106	71.1-131				
sec-Butylbenzene	50		"	50.0		100	68.6-126				
Styrene	50		"	50.0		100	71.7-126				
tert-Butylbenzene	64		"	50.0		129	76.4-151				
Tetrachloroethylene	50		"	50.0		101	65-168				
Toluene	50		"	50.0		100	72.5-127				
trans-1,2-Dichloroethylene	53		"	50.0		106	62.2-144				
trans-1,3-Dichloropropylene	50		"	50.0		101	66-135				
Trichloroethylene	49		"	50.0		98.5	72.6-133				
Trichlorofluoromethane	48		"	50.0		95.2	51.5-131				
Vinyl Chloride	46		"	50.0		92.5	47-126				
Vinyl acetate	27		"	50.0		54.3	70-130	Low Bias			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.8</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>48.8</i>		<i>"</i>	<i>50.0</i>		<i>97.6</i>	<i>81.2-127</i>				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	Limit	Flag
Batch BG21292 - EPA 5035B											
LCS Dup (BG21292-BSD1)				Prepared & Analyzed: 08/01/2012							
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		103	71.7-135		1.06	22.3	
1,1,1-Trichloroethane	51		"	50.0		101	72.6-137		2.40	22.5	
1,1,2,2-Tetrachloroethane	50		"	50.0		100	65.4-135		6.03	23.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0		99.3	67.8-129		0.0605	25	
1,1,2-Trichloroethane	48		"	50.0		96.9	68.6-132		1.62	22.6	
1,1-Dichloroethane	53		"	50.0		106	71.7-131		2.50	22.8	
1,1-Dichloroethylene	56		"	50.0		113	74.4-148		0.873	26.8	
1,1-Dichloropropylene	51		"	50.0		103	72.5-135		0.718	22	
1,2,3-Trichlorobenzene	52		"	50.0		104	62.7-139		0.329	25.6	
1,2,3-Trichloropropane	49		"	50.0		97.8	61.7-131		8.21	24.2	
1,2,4-Trichlorobenzene	48		"	50.0		95.9	65-139		2.57	26.6	
1,2,4-Trimethylbenzene	52		"	50.0		104	73.1-136		2.88	24.3	
1,2-Dibromo-3-chloropropane	48		"	50.0		95.3	53.3-149		2.12	29.1	
1,2-Dibromoethane	49		"	50.0		98.4	72.7-134		3.46	21.1	
1,2-Dichlorobenzene	49		"	50.0		97.5	71.6-125		3.05	22.8	
1,2-Dichloroethane	50		"	50.0		101	68.7-136		4.05	21.6	
1,2-Dichloropropane	49		"	50.0		97.5	68.2-136		1.41	22.5	
1,3,5-Trimethylbenzene	50		"	50.0		101	69.7-127		1.99	23.3	
1,3-Dichlorobenzene	49		"	50.0		97.1	69.8-129		2.66	23.3	
1,3-Dichloropropane	49		"	50.0		98.9	69.3-132		0.645	22.4	
1,4-Dichlorobenzene	50		"	50.0		99.2	71.3-129		2.96	23.9	
1,4-Dioxane	52		"	2000		2.58	70-130	Low Bias	32.1	30	Non-dir.
2,2-Dichloropropane	52		"	50.0		103	65.5-131		1.10	22	
2-Butanone	48		"	50.0		95.0	70-130		5.92	30	
2-Chlorotoluene	47		"	50.0		93.4	64.2-120		1.74	23.3	
4-Chlorotoluene	49		"	50.0		97.4	68.8-129		2.43	23.5	
Acetone	37		"	50.0		74.0	70-130		9.25	30	
Benzene	51		"	50.0		102	70.4-128		2.73	21.8	
Bromobenzene	48		"	50.0		95.7	66.8-127		1.72	23.1	
Bromochloromethane	49		"	50.0		98.8	71.6-133		1.39	22	
Bromodichloromethane	50		"	50.0		100	70.6-136		2.13	22.7	
Bromoform	49		"	50.0		98.8	63.2-139		2.46	23.3	
Bromomethane	50		"	50.0		99.5	50.2-135		0.665	29.1	
Carbon tetrachloride	52		"	50.0		105	71.9-140		1.19	22.4	
Chlorobenzene	50		"	50.0		100	76.4-127		0.0796	21.8	
Chloroethane	50		"	50.0		99.4	50.8-142		1.06	24	
Chloroform	50		"	50.0		99.9	73.6-132		2.47	21.9	
Chloromethane	45		"	50.0		90.8	32.9-131		1.24	22.8	
cis-1,2-Dichloroethylene	51		"	50.0		103	69.5-128		1.78	22	
cis-1,3-Dichloropropylene	51		"	50.0		102	66.6-129		0.569	22.7	
Dibromochloromethane	50		"	50.0		100	71.4-135		3.58	22.1	
Dibromomethane	51		"	50.0		102	72.3-133		0.355	23.1	
Dichlorodifluoromethane	42		"	50.0		83.8	39.4-108		0.0239	26	
Ethyl Benzene	50		"	50.0		101	75.2-131		0.416	22.5	
Hexachlorobutadiene	48		"	50.0		96.8	60.5-130		1.66	25.4	
Isopropylbenzene	53		"	50.0		107	73.7-136		0.486	23.2	
Methyl tert-butyl ether (MTBE)	51		"	50.0		102	56.5-140		3.21	30.6	
Methylene chloride	53		"	50.0		106	58.4-120		2.96	23.8	
Naphthalene	54		"	50.0		107	55.2-150		1.00	29.4	
n-Butylbenzene	48		"	50.0		95.9	63.7-125		1.49	25.3	
n-Propylbenzene	49		"	50.0		98.4	67.8-128		0.709	28.9	
o-Xylene	48		"	50.0		95.1	70.4-126		1.17	22.7	
p- & m- Xylenes	100		"	100		99.9	73.8-130		1.38	23	
p-Isopropyltoluene	52		"	50.0		105	71.1-131		1.50	23.4	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG21292 - EPA 5035B**

**LCS Dup (BG21292-BSD1)**

Prepared & Analyzed: 08/01/2012

sec-Butylbenzene	50		ug/L	50.0		101	68.6-126		0.537	23.3	
Styrene	49		"	50.0		98.1	71.7-126		2.30	21.9	
tert-Butylbenzene	64		"	50.0		127	76.4-151		1.05	45.4	
Tetrachloroethylene	50		"	50.0		101	65-168		0.0397	27.9	
Toluene	50		"	50.0		99.5	72.5-127		0.801	22.9	
trans-1,2-Dichloroethylene	52		"	50.0		105	62.2-144		1.76	24.6	
trans-1,3-Dichloropropylene	50		"	50.0		100	66-135		0.517	23	
Trichloroethylene	50		"	50.0		101	72.6-133		2.33	21.9	
Trichlorofluoromethane	48		"	50.0		96.6	51.5-131		1.38	24.2	
Vinyl Chloride	46		"	50.0		92.6	47-126		0.0648	25.5	
Vinyl acetate	26		"	50.0		51.7	70-130	Low Bias	4.91	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>48.6</i>		<i>"</i>	<i>50.0</i>		<i>97.2</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.3</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>98.0</i>	<i>81.2-127</i>				

**Matrix Spike (BG21292-MS1)**

\*Source sample: 12G0902-08 (ACMS 16D)

Prepared & Analyzed: 08/01/2012

1,1,1,2-Tetrachloroethane	42		ug/L	50.0	ND	84.7	73-125				
1,1,1-Trichloroethane	47		"	50.0	ND	93.5	69.7-117				
1,1,2,2-Tetrachloroethane	45		"	50.0	ND	89.1	67.4-136				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46		"	50.0	ND	92.2	67.6-103				
1,1,2-Trichloroethane	42		"	50.0	ND	84.1	57.6-124				
1,1-Dichloroethane	50		"	50.0	ND	99.3	58.4-122				
1,1-Dichloroethylene	53		"	50.0	ND	106	72.9-126				
1,1-Dichloropropylene	45		"	50.0	ND	90.9	61.8-118				
1,2,3-Trichlorobenzene	19		"	50.0	ND	37.1	67.9-119	Low Bias			
1,2,3-Trichloropropane	44		"	50.0	ND	87.7	45.9-150				
1,2,4-Trichlorobenzene	18		"	50.0	ND	36.3	72.1-114	Low Bias			
1,2,4-Trimethylbenzene	38		"	50.0	ND	76.5	61.9-109				
1,2-Dibromo-3-chloropropane	38		"	50.0	ND	75.1	18.1-176				
1,2-Dibromoethane	43		"	50.0	ND	85.1	41.3-139				
1,2-Dichlorobenzene	29		"	50.0	ND	58.5	44.1-124				
1,2-Dichloroethane	46		"	50.0	ND	91.0	60.2-122				
1,2-Dichloropropane	44		"	50.0	ND	88.1	57.2-130				
1,3,5-Trimethylbenzene	37		"	50.0	ND	74.0	61.2-103				
1,3-Dichlorobenzene	30		"	50.0	ND	60.2	38-133				
1,3-Dichloropropane	42		"	50.0	ND	84.9	68.7-122				
1,4-Dichlorobenzene	30		"	50.0	ND	59.8	38.7-133				
1,4-Dioxane	67		"	2000	ND	3.35	70-130	Low Bias			
2,2-Dichloropropane	45		"	50.0	ND	90.2	71.7-105				
2-Butanone	46		"	50.0	ND	92.7	70-130				
2-Chlorotoluene	35		"	50.0	ND	70.3	41.8-127				
4-Chlorotoluene	35		"	50.0	ND	69.0	46.5-128				
Acetone	43		"	50.0	10	64.5	70-130	Low Bias			
Benzene	46		"	50.0	ND	92.2	59.1-115				
Bromobenzene	37		"	50.0	ND	73.7	46-135				
Bromochloromethane	44		"	50.0	ND	88.9	70.1-116				
Bromodichloromethane	44		"	50.0	ND	87.5	56.6-130				
Bromoform	41		"	50.0	ND	82.7	43.7-137				
Bromomethane	44		"	50.0	ND	87.4	34.6-120				
Carbon tetrachloride	47		"	50.0	ND	94.2	64.1-119				
Chlorobenzene	38		"	50.0	ND	76.6	38.3-132				
Chloroethane	48		"	50.0	ND	95.6	32.6-133				
Chloroform	45		"	50.0	ND	90.6	67.7-116				
Chloromethane	43		"	50.0	ND	86.4	33.1-109				



**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG21292 - EPA 5035B**

Matrix Spike (BG21292-MS1)		*Source sample: 12G0902-08 (ACMS 16D)					Prepared & Analyzed: 08/01/2012				
cis-1,2-Dichloroethylene	47		ug/L	50.0	ND	93.1	53.9-116				
cis-1,3-Dichloropropylene	41		"	50.0	ND	82.9	35.7-135				
Dibromochloromethane	42		"	50.0	ND	84.5	46.6-136				
Dibromomethane	44		"	50.0	ND	88.9	69.8-122				
Dichlorodifluoromethane	38		"	50.0	ND	75.2	37.9-98.1				
Ethyl Benzene	40		"	50.0	ND	80.9	45.3-123				
Hexachlorobutadiene	24		"	50.0	ND	48.7	43.4-102				
Isopropylbenzene	45		"	50.0	ND	90.6	70.3-110				
Methyl tert-butyl ether (MTBE)	49		"	50.0	ND	97.7	40.2-137				
Methylene chloride	47		"	50.0	1.6	90.8	39.2-109				
Naphthalene	23		"	50.0	ND	46.2	-6.06-206				
n-Butylbenzene	32		"	50.0	ND	63.5	43.5-93.9				
n-Propylbenzene	39		"	50.0	ND	77.4	58.9-102				
o-Xylene	37		"	50.0	ND	74.4	41.5-115				
p- & m- Xylenes	77		"	100	ND	77.4	42.6-121				
p-Isopropyltoluene	38		"	50.0	ND	75.1	37.5-136				
sec-Butylbenzene	38		"	50.0	ND	76.4	38-130				
Styrene	35		"	50.0	ND	70.9	47.6-119				
tert-Butylbenzene	50		"	50.0	ND	101	68.9-142				
Tetrachloroethylene	140		"	50.0	54	180	38.5-161	High Bias			
Toluene	42		"	50.0	ND	83.8	48.1-124				
trans-1,2-Dichloroethylene	49		"	50.0	ND	97.0	67.6-121				
trans-1,3-Dichloropropylene	39		"	50.0	ND	78.9	47.5-135				
Trichloroethylene	43		"	50.0	ND	86.3	59.3-137				
Trichlorofluoromethane	44		"	50.0	ND	87.9	28.9-124				
Vinyl Chloride	45		"	50.0	ND	90.7	29.8-116				
Vinyl acetate	11		"	50.0	ND	21.8	70-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	54.4		"	50.0		109	72.6-129				
Surrogate: p-Bromofluorobenzene	52.5		"	50.0		105	63.5-145				
Surrogate: Toluene-d8	49.3		"	50.0		98.7	81.2-127				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BG21292 - EPA 5035B</b>											
<b>Matrix Spike Dup (BG21292-MSD1)</b>	*Source sample: 12G0902-08 (ACMS 16D)						Prepared & Analyzed: 08/01/2012				
1,1,1,2-Tetrachloroethane	41		ug/L	50.0	ND	82.7	73-125		2.39	15.5	
1,1,1-Trichloroethane	46		"	50.0	ND	92.2	69.7-117		1.31	15.6	
1,1,2,2-Tetrachloroethane	46		"	50.0	ND	91.4	67.4-136		2.55	25.2	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0	ND	89.8	67.6-103		2.62	15.6	
1,1,2-Trichloroethane	42		"	50.0	ND	83.0	57.6-124		1.24	20.4	
1,1-Dichloroethane	50		"	50.0	ND	99.7	58.4-122		0.422	17.5	
1,1-Dichloroethylene	52		"	50.0	ND	105	72.9-126		1.29	23.2	
1,1-Dichloropropylene	45		"	50.0	ND	90.5	61.8-118		0.529	15.6	
1,2,3-Trichlorobenzene	20		"	50.0	ND	40.1	67.9-119	Low Bias	7.72	17.8	
1,2,3-Trichloropropane	46		"	50.0	ND	91.9	45.9-150		4.74	22.5	
1,2,4-Trichlorobenzene	20		"	50.0	ND	40.5	72.1-114	Low Bias	10.7	26.8	
1,2,4-Trimethylbenzene	41		"	50.0	ND	81.7	61.9-109		6.65	26	
1,2-Dibromo-3-chloropropane	38		"	50.0	ND	76.8	18.1-176		2.21	27.7	
1,2-Dibromoethane	42		"	50.0	ND	84.7	41.3-139		0.518	20.5	
1,2-Dichlorobenzene	31		"	50.0	ND	62.1	44.1-124		5.90	25	
1,2-Dichloroethane	46		"	50.0	ND	92.9	60.2-122		2.07	25.1	
1,2-Dichloropropane	44		"	50.0	ND	87.4	57.2-130		0.707	25	
1,3,5-Trimethylbenzene	39		"	50.0	ND	78.0	61.2-103		5.26	25	
1,3-Dichlorobenzene	33		"	50.0	ND	65.2	38-133		8.04	25	
1,3-Dichloropropane	42		"	50.0	ND	84.3	68.7-122		0.733	17.4	
1,4-Dichlorobenzene	33		"	50.0	ND	65.8	38.7-133		9.55	25	
1,4-Dioxane	57		"	2000	ND	2.85	70-130	Low Bias	16.4	30	
2,2-Dichloropropane	45		"	50.0	ND	89.5	71.7-105		0.757	25	
2-Butanone	45		"	50.0	ND	90.4	70-130		2.51	30	
2-Chlorotoluene	38		"	50.0	ND	75.6	41.8-127		7.18	25	
4-Chlorotoluene	37		"	50.0	ND	73.9	46.5-128		6.83	25	
Acetone	42		"	50.0	10	63.0	70-130	Low Bias	2.26	30	
Benzene	46		"	50.0	ND	92.3	59.1-115		0.108	23.5	
Bromobenzene	39		"	50.0	ND	77.4	46-135		4.98	25	
Bromochloromethane	45		"	50.0	ND	89.3	70.1-116		0.449	25	
Bromodichloromethane	42		"	50.0	ND	85.0	56.6-130		2.97	22.7	
Bromoform	44		"	50.0	ND	88.9	43.7-137		7.23	25	
Bromomethane	46		"	50.0	ND	91.2	34.6-120		4.28	25	
Carbon tetrachloride	46		"	50.0	ND	92.6	64.1-119		1.73	28.5	
Chlorobenzene	39		"	50.0	ND	77.8	38.3-132		1.61	36.2	
Chloroethane	47		"	50.0	ND	94.3	32.6-133		1.33	28.2	
Chloroform	46		"	50.0	ND	91.1	67.7-116		0.594	23.7	
Chloromethane	42		"	50.0	ND	84.7	33.1-109		2.03	25	
cis-1,2-Dichloroethylene	47		"	50.0	ND	94.6	53.9-116		1.64	24.8	
cis-1,3-Dichloropropylene	41		"	50.0	ND	82.6	35.7-135		0.411	38.7	
Dibromochloromethane	43		"	50.0	ND	86.3	46.6-136		2.11	28.9	
Dibromomethane	45		"	50.0	ND	89.8	69.8-122		0.985	25	
Dichlorodifluoromethane	37		"	50.0	ND	74.9	37.9-98.1		0.453	30.4	
Ethyl Benzene	40		"	50.0	ND	80.9	45.3-123		0.0247	38.1	
Hexachlorobutadiene	25		"	50.0	ND	50.1	43.4-102		2.87	27	
Isopropylbenzene	47		"	50.0	ND	94.0	70.3-110		3.68	25	
Methyl tert-butyl ether (MTBE)	50		"	50.0	ND	99.6	40.2-137		1.95	25	
Methylene chloride	46		"	50.0	1.6	88.7	39.2-109		2.27	25	
Naphthalene	25		"	50.0	ND	49.8	-6.06-206		7.54	29.3	
n-Butylbenzene	34		"	50.0	ND	67.9	43.5-93.9		6.70	25	
n-Propylbenzene	41		"	50.0	ND	82.0	58.9-102		5.77	25	
o-Xylene	37		"	50.0	ND	74.4	41.5-115		0.0806	35.3	
p- & m- Xylenes	78		"	100	ND	78.2	42.6-121		1.12	37	
p-Isopropyltoluene	40		"	50.0	ND	79.9	37.5-136		6.30	25	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG21292 - EPA 5035B**

<b>Matrix Spike Dup (BG21292-MSD1)</b>		*Source sample: 12G0902-08 (ACMS 16D)					Prepared & Analyzed: 08/01/2012				
sec-Butylbenzene	40		ug/L	50.0	ND	79.5	38-130		4.00	25	
Styrene	35		"	50.0	ND	70.9	47.6-119		0.0282	25	
tert-Butylbenzene	53		"	50.0	ND	105	68.9-142		4.82	25	
Tetrachloroethylene	200		"	50.0	54	292	38.5-161	High Bias	47.6	38.3	Non-dir.
Toluene	42		"	50.0	ND	83.2	48.1-124		0.791	28.1	
trans-1,2-Dichloroethylene	48		"	50.0	ND	96.5	67.6-121		0.537	25	
trans-1,3-Dichloropropylene	39		"	50.0	ND	78.1	47.5-135		1.04	25	
Trichloroethylene	43		"	50.0	ND	86.7	59.3-137		0.439	51.6	
Trichlorofluoromethane	42		"	50.0	ND	83.8	28.9-124		4.71	27	
Vinyl Chloride	44		"	50.0	ND	87.5	29.8-116		3.59	21.8	
Vinyl acetate	7.6		"	50.0	ND	15.3	70-130	Low Bias	35.0	30	Non-dir.
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.2</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>54.4</i>		<i>"</i>	<i>50.0</i>		<i>109</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>48.0</i>		<i>"</i>	<i>50.0</i>		<i>96.0</i>	<i>81.2-127</i>				

**Batch BH20043 - EPA 5030B**

<b>Blank (BH20043-BLK1)</b>		Prepared: 08/01/2012 Analyzed: 08/02/2012									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	50	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BH20043 - EPA 5030B**

**Blank (BH20043-BLK1)**

Prepared: 08/01/2012 Analyzed: 08/02/2012

Chloroform	ND	5.0	ug/L								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.8</i>		<i>"</i>	<i>50.0</i>		<i>93.7</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.8</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>48.5</i>		<i>"</i>	<i>50.0</i>		<i>97.0</i>	<i>81.2-127</i>				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	Limit	Flag
		Limit		Level	Result		Limits				
Batch BH20043 - EPA 5030B											
LCS (BH20043-BS1)				Prepared: 08/01/2012 Analyzed: 08/02/2012							
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		104	82.3-130				
1,1,1-Trichloroethane	53		"	50.0		106	75.6-137				
1,1,2,2-Tetrachloroethane	50		"	50.0		99.1	71.3-131				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		102	71.1-129				
1,1,2-Trichloroethane	49		"	50.0		98.1	74.5-129				
1,1-Dichloroethane	56		"	50.0		111	79.6-132				
1,1-Dichloroethylene	57		"	50.0		114	80.2-146				
1,1-Dichloropropylene	53		"	50.0		106	75-136				
1,2,3-Trichlorobenzene	49		"	50.0		98.9	66.1-136				
1,2,3-Trichloropropane	49		"	50.0		97.3	63-131				
1,2,4-Trichlorobenzene	46		"	50.0		91.8	70.6-136				
1,2,4-Trimethylbenzene	52		"	50.0		104	75.3-135				
1,2-Dibromo-3-chloropropane	44		"	50.0		88.4	58.9-140				
1,2-Dibromoethane	51		"	50.0		102	79-130				
1,2-Dichlorobenzene	48		"	50.0		96.6	76.1-122				
1,2-Dichloroethane	52		"	50.0		103	74.6-132				
1,2-Dichloropropane	49		"	50.0		97.5	76.9-129				
1,3,5-Trimethylbenzene	49		"	50.0		98.7	70.6-127				
1,3-Dichlorobenzene	48		"	50.0		96.8	77-124				
1,3-Dichloropropane	49		"	50.0		98.3	75.8-126				
1,4-Dichlorobenzene	49		"	50.0		97.8	76.6-125				
1,4-Dioxane	54		"	2000		2.69	70-130	Low Bias			
2,2-Dichloropropane	50		"	50.0		99.2	69-133				
2-Butanone	46		"	50.0		92.9	70-130				
2-Chlorotoluene	47		"	50.0		93.7	66.3-119				
4-Chlorotoluene	48		"	50.0		95.9	69.2-127				
Acetone	37		"	50.0		74.5	70-130				
Benzene	53		"	50.0		106	76.2-129				
Bromobenzene	47		"	50.0		95.0	71.3-123				
Bromochloromethane	49		"	50.0		98.7	70.8-137				
Bromodichloromethane	50		"	50.0		99.5	79.7-134				
Bromoform	49		"	50.0		98.5	70.5-141				
Bromomethane	49		"	50.0		98.8	43.9-147				
Carbon tetrachloride	53		"	50.0		107	78.1-138				
Chlorobenzene	50		"	50.0		101	80.4-125				
Chloroethane	51		"	50.0		101	55.8-140				
Chloroform	52		"	50.0		103	76.6-133				
Chloromethane	44		"	50.0		88.6	48.8-115				
cis-1,2-Dichloroethylene	53		"	50.0		106	75.1-128				
cis-1,3-Dichloropropylene	49		"	50.0		98.1	74.5-128				
Dibromochloromethane	50		"	50.0		101	79.8-134				
Dibromomethane	51		"	50.0		101	79-130				
Dichlorodifluoromethane	39		"	50.0		78.7	47.1-101				
Ethyl Benzene	50		"	50.0		101	80.8-128				
Hexachlorobutadiene	46		"	50.0		91.1	64.8-128				
Isopropylbenzene	53		"	50.0		106	75.5-135				
Methyl tert-butyl ether (MTBE)	53		"	50.0		105	65.1-140				
Methylene chloride	48		"	50.0		96.5	61.3-120				
Naphthalene	51		"	50.0		103	62.3-148				
n-Butylbenzene	47		"	50.0		93.4	67.2-123				
n-Propylbenzene	49		"	50.0		97.6	70.5-127				
o-Xylene	48		"	50.0		96.1	75.9-122				
p- & m- Xylenes	99		"	100		99.3	77.7-127				
p-Isopropyltoluene	51		"	50.0		102	75.6-129				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BH20043 - EPA 5030B</b>											
<b>LCS (BH20043-BS1)</b>						Prepared: 08/01/2012 Analyzed: 08/02/2012					
sec-Butylbenzene	50		ug/L	50.0		99.7	71.5-125				
Styrene	50		"	50.0		99.5	77.8-123				
tert-Butylbenzene	63		"	50.0		125	75.9-151				
Tetrachloroethylene	53		"	50.0		107	63.6-167				
Toluene	50		"	50.0		99.9	77-123				
trans-1,2-Dichloroethylene	54		"	50.0		108	76.3-139				
trans-1,3-Dichloropropylene	49		"	50.0		97.1	72.5-137				
Trichloroethylene	50		"	50.0		99.7	77.9-130				
Trichlorofluoromethane	46		"	50.0		92.7	57.4-133				
Vinyl Chloride	46		"	50.0		91.8	54.9-124				
Vinyl acetate	26		"	50.0		51.4	70-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	48.8		"	50.0		97.5	72.6-129				
Surrogate: p-Bromofluorobenzene	50.0		"	50.0		100	63.5-145				
Surrogate: Toluene-d8	49.3		"	50.0		98.5	81.2-127				
<b>LCS Dup (BH20043-BSD1)</b>						Prepared: 08/01/2012 Analyzed: 08/02/2012					
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	82.3-130		1.73	21.1	
1,1,1-Trichloroethane	51		"	50.0		102	75.6-137		3.27	19.7	
1,1,1,2-Tetrachloroethane	50		"	50.0		99.4	71.3-131		0.222	20.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0		101	71.1-129		1.06	21.7	
1,1,2-Trichloroethane	48		"	50.0		96.2	74.5-129		1.89	20.3	
1,1-Dichloroethane	54		"	50.0		108	79.6-132		2.79	20.6	
1,1-Dichloroethylene	56		"	50.0		112	80.2-146		2.57	20	
1,1-Dichloropropylene	51		"	50.0		102	75-136		3.18	19.3	
1,2,3-Trichlorobenzene	49		"	50.0		97.2	66.1-136		1.69	21.6	
1,2,3-Trichloropropane	49		"	50.0		97.6	63-131		0.308	23.9	
1,2,4-Trichlorobenzene	46		"	50.0		91.0	70.6-136		0.832	21.7	
1,2,4-Trimethylbenzene	51		"	50.0		103	75.3-135		1.22	18.8	
1,2-Dibromo-3-chloropropane	46		"	50.0		91.6	58.9-140		3.49	27.7	
1,2-Dibromoethane	49		"	50.0		99.0	79-130		3.01	23	
1,2-Dichlorobenzene	47		"	50.0		95.0	76.1-122		1.73	19.8	
1,2-Dichloroethane	50		"	50.0		99.9	74.6-132		3.23	20.2	
1,2-Dichloropropane	49		"	50.0		97.9	76.9-129		0.430	20.7	
1,3,5-Trimethylbenzene	48		"	50.0		95.1	70.6-127		3.74	18.9	
1,3-Dichlorobenzene	48		"	50.0		95.9	77-124		0.851	19.2	
1,3-Dichloropropane	48		"	50.0		96.9	75.8-126		1.41	22.1	
1,4-Dichlorobenzene	49		"	50.0		98.2	76.6-125		0.429	18.6	
1,4-Dioxane	60		"	2000		2.99	70-130	Low Bias	10.6	30	
2,2-Dichloropropane	48		"	50.0		96.1	69-133		3.13	19.8	
2-Butanone	46		"	50.0		91.0	70-130		2.09	30	
2-Chlorotoluene	46		"	50.0		93.0	66.3-119		0.836	21.6	
4-Chlorotoluene	48		"	50.0		96.2	69.2-127		0.333	19	
Acetone	36		"	50.0		71.3	70-130		4.39	30	
Benzene	51		"	50.0		102	76.2-129		3.64	19	
Bromobenzene	47		"	50.0		93.6	71.3-123		1.40	20.3	
Bromochloromethane	48		"	50.0		96.5	70.8-137		2.17	23.9	
Bromodichloromethane	50		"	50.0		100	79.7-134		0.681	21	
Bromoform	50		"	50.0		99.2	70.5-141		0.728	21.8	
Bromomethane	48		"	50.0		95.1	43.9-147		3.86	28.4	
Carbon tetrachloride	52		"	50.0		104	78.1-138		2.95	20.1	
Chlorobenzene	50		"	50.0		99.5	80.4-125		1.16	19.9	
Chloroethane	50		"	50.0		99.3	55.8-140		1.99	23.3	
Chloroform	51		"	50.0		102	76.6-133		1.51	20.3	
Chloromethane	44		"	50.0		87.1	48.8-115		1.62	24.5	



**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BH20043 - EPA 5030B**

**LCS Dup (BH20043-BSD1)**

Prepared: 08/01/2012 Analyzed: 08/02/2012

cis-1,2-Dichloroethylene	53		ug/L	50.0		105	75.1-128		1.21	20.5	
cis-1,3-Dichloropropylene	48		"	50.0		96.1	74.5-128		2.00	19.9	
Dibromochloromethane	50		"	50.0		101	79.8-134		0.0198	21.3	
Dibromomethane	50		"	50.0		100	79-130		1.17	22.4	
Dichlorodifluoromethane	38		"	50.0		76.8	47.1-101		2.42	23.9	
Ethyl Benzene	50		"	50.0		100	80.8-128		0.797	19.2	
Hexachlorobutadiene	45		"	50.0		90.6	64.8-128		0.484	20.6	
Isopropylbenzene	54		"	50.0		107	75.5-135		0.973	20	
Methyl tert-butyl ether (MTBE)	51		"	50.0		103	65.1-140		2.69	23.6	
Methylene chloride	49		"	50.0		98.3	61.3-120		1.91	20.4	
Naphthalene	51		"	50.0		102	62.3-148		0.724	27.1	
n-Butylbenzene	46		"	50.0		92.4	67.2-123		1.03	19.1	
n-Propylbenzene	48		"	50.0		96.8	70.5-127		0.823	23.4	
o-Xylene	47		"	50.0		94.4	75.9-122		1.78	19.3	
p- & m- Xylenes	98		"	100		98.2	77.7-127		1.16	18.6	
p-Isopropyltoluene	51		"	50.0		102	75.6-129		0.137	19.1	
sec-Butylbenzene	50		"	50.0		99.6	71.5-125		0.0803	18.9	
Styrene	49		"	50.0		97.2	77.8-123		2.36	20.9	
tert-Butylbenzene	62		"	50.0		124	75.9-151		1.14	20.9	
Tetrachloroethylene	56		"	50.0		112	63.6-167		5.10	27.7	
Toluene	50		"	50.0		99.9	77-123		0.0601	18.7	
trans-1,2-Dichloroethylene	53		"	50.0		106	76.3-139		2.04	19.5	
trans-1,3-Dichloropropylene	48		"	50.0		95.1	72.5-137		2.14	19.3	
Trichloroethylene	50		"	50.0		99.2	77.9-130		0.503	20.5	
Trichlorofluoromethane	45		"	50.0		90.4	57.4-133		2.49	21.4	
Vinyl Chloride	45		"	50.0		90.5	54.9-124		1.38	22.3	
Vinyl acetate	25		"	50.0		49.8	70-130	Low Bias	3.16	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.4</i>		<i>"</i>	<i>50.0</i>		<i>98.9</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>52.8</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.3</i>	<i>81.2-127</i>				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BH20134 - EPA 5035B**

**Blank (BH20134-BLK1)**

Prepared & Analyzed: 08/03/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	50	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	10	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylene chloride	1.4	10	"
Naphthalene	1.8	10	"
n-Butylbenzene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
o-Xylene	ND	5.0	"
p- & m- Xylenes	ND	10	"
p-Isopropyltoluene	ND	5.0	"

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BH20134 - EPA 5035B**

**Blank (BH20134-BLK1)**

Prepared & Analyzed: 08/03/2012

sec-Butylbenzene	ND	5.0	ug/kg wet								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	49.6		ug/L	50.0		99.2	72.6-129				
<i>Surrogate: p-Bromofluorobenzene</i>	53.4		"	50.0		107	63.5-145				
<i>Surrogate: Toluene-d8</i>	47.4		"	50.0		94.8	81.2-127				

**LCS (BH20134-BS1)**

Prepared & Analyzed: 08/03/2012

1,1,1,2-Tetrachloroethane	49		ug/L	50.0		97.9	71.7-135				
1,1,1-Trichloroethane	51		"	50.0		102	72.6-137				
1,1,2,2-Tetrachloroethane	45		"	50.0		89.2	65.4-135				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0		97.4	67.8-129				
1,1,2-Trichloroethane	44		"	50.0		88.7	68.6-132				
1,1-Dichloroethane	53		"	50.0		105	71.7-131				
1,1-Dichloroethylene	55		"	50.0		110	74.4-148				
1,1-Dichloropropylene	52		"	50.0		104	72.5-135				
1,2,3-Trichlorobenzene	49		"	50.0		98.6	62.7-139				
1,2,3-Trichloropropane	44		"	50.0		87.1	61.7-131				
1,2,4-Trichlorobenzene	47		"	50.0		94.4	65-139				
1,2,4-Trimethylbenzene	50		"	50.0		100	73.1-136				
1,2-Dibromo-3-chloropropane	42		"	50.0		83.4	53.3-149				
1,2-Dibromoethane	46		"	50.0		92.8	72.7-134				
1,2-Dichlorobenzene	46		"	50.0		92.4	71.6-125				
1,2-Dichloroethane	48		"	50.0		96.1	68.7-136				
1,2-Dichloropropane	45		"	50.0		90.0	68.2-136				
1,3,5-Trimethylbenzene	48		"	50.0		95.9	69.7-127				
1,3-Dichlorobenzene	47		"	50.0		93.6	69.8-129				
1,3-Dichloropropane	45		"	50.0		89.2	69.3-132				
1,4-Dichlorobenzene	48		"	50.0		95.6	71.3-129				
1,4-Dioxane	37		"	2000		1.84	70-130	Low Bias			
2,2-Dichloropropane	52		"	50.0		104	65.5-131				
2-Butanone	42		"	50.0		84.9	70-130				
2-Chlorotoluene	46		"	50.0		91.0	64.2-120				
4-Chlorotoluene	47		"	50.0		93.6	68.8-129				
Acetone	34		"	50.0		67.5	70-130	Low Bias			
Benzene	51		"	50.0		102	70.4-128				
Bromobenzene	45		"	50.0		90.0	66.8-127				
Bromochloromethane	47		"	50.0		94.7	71.6-133				
Bromodichloromethane	47		"	50.0		94.6	70.6-136				
Bromoform	45		"	50.0		89.4	63.2-139				
Bromomethane	46		"	50.0		92.6	50.2-135				
Carbon tetrachloride	53		"	50.0		105	71.9-140				
Chlorobenzene	48		"	50.0		96.5	76.4-127				
Chloroethane	47		"	50.0		94.6	50.8-142				
Chloroform	49		"	50.0		98.5	73.6-132				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BH20134 - EPA 5035B**

**LCS (BH20134-BS1)**

Prepared & Analyzed: 08/03/2012

Chloromethane	41		ug/L	50.0		82.2	32.9-131				
cis-1,2-Dichloroethylene	51		"	50.0		102	69.5-128				
cis-1,3-Dichloropropylene	47		"	50.0		94.9	66.6-129				
Dibromochloromethane	47		"	50.0		93.9	71.4-135				
Dibromomethane	47		"	50.0		94.5	72.3-133				
Dichlorodifluoromethane	38		"	50.0		75.4	39.4-108				
Ethyl Benzene	49		"	50.0		97.2	75.2-131				
Hexachlorobutadiene	48		"	50.0		95.7	60.5-130				
Isopropylbenzene	52		"	50.0		104	73.7-136				
Methyl tert-butyl ether (MTBE)	50		"	50.0		99.0	56.5-140				
Methylene chloride	52		"	50.0		104	58.4-120				
Naphthalene	47		"	50.0		94.4	55.2-150				
n-Butylbenzene	47		"	50.0		93.7	63.7-125				
n-Propylbenzene	48		"	50.0		96.2	67.8-128				
o-Xylene	46		"	50.0		91.8	70.4-126				
p- & m- Xylenes	96		"	100		96.3	73.8-130				
p-Isopropyltoluene	51		"	50.0		101	71.1-131				
sec-Butylbenzene	49		"	50.0		98.0	68.6-126				
Styrene	48		"	50.0		95.5	71.7-126				
tert-Butylbenzene	62		"	50.0		124	76.4-151				
Tetrachloroethylene	49		"	50.0		98.1	65-168				
Toluene	48		"	50.0		96.1	72.5-127				
trans-1,2-Dichloroethylene	52		"	50.0		103	62.2-144				
trans-1,3-Dichloropropylene	46		"	50.0		92.4	66-135				
Trichloroethylene	48		"	50.0		96.3	72.6-133				
Trichlorofluoromethane	48		"	50.0		95.6	51.5-131				
Vinyl Chloride	43		"	50.0		86.6	47-126				
Vinyl acetate	24		"	50.0		48.1	70-130	Low Bias			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.9</i>		<i>"</i>	<i>50.0</i>		<i>95.8</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.4</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>48.2</i>		<i>"</i>	<i>50.0</i>		<i>96.5</i>	<i>81.2-127</i>				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	Limit	Flag
Batch BH20134 - EPA 5035B											
LCS Dup (BH20134-BSD1)				Prepared & Analyzed: 08/03/2012							
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		95.1	71.7-135		2.84	22.3	
1,1,1-Trichloroethane	48		"	50.0		95.7	72.6-137		6.22	22.5	
1,1,2,2-Tetrachloroethane	45		"	50.0		90.9	65.4-135		1.82	23.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47		"	50.0		93.5	67.8-129		4.11	25	
1,1,2-Trichloroethane	44		"	50.0		87.6	68.6-132		1.23	22.6	
1,1-Dichloroethane	49		"	50.0		98.4	71.7-131		6.93	22.8	
1,1-Dichloroethylene	52		"	50.0		104	74.4-148		4.98	26.8	
1,1-Dichloropropylene	48		"	50.0		95.7	72.5-135		8.57	22	
1,2,3-Trichlorobenzene	48		"	50.0		96.3	62.7-139		2.36	25.6	
1,2,3-Trichloropropane	45		"	50.0		90.3	61.7-131		3.58	24.2	
1,2,4-Trichlorobenzene	46		"	50.0		91.2	65-139		3.49	26.6	
1,2,4-Trimethylbenzene	48		"	50.0		95.9	73.1-136		4.32	24.3	
1,2-Dibromo-3-chloropropane	42		"	50.0		83.6	53.3-149		0.263	29.1	
1,2-Dibromoethane	45		"	50.0		90.7	72.7-134		2.27	21.1	
1,2-Dichlorobenzene	45		"	50.0		89.7	71.6-125		3.03	22.8	
1,2-Dichloroethane	46		"	50.0		92.4	68.7-136		3.91	21.6	
1,2-Dichloropropane	44		"	50.0		88.0	68.2-136		2.20	22.5	
1,3,5-Trimethylbenzene	46		"	50.0		91.9	69.7-127		4.32	23.3	
1,3-Dichlorobenzene	45		"	50.0		90.2	69.8-129		3.72	23.3	
1,3-Dichloropropane	43		"	50.0		86.9	69.3-132		2.59	22.4	
1,4-Dichlorobenzene	47		"	50.0		93.2	71.3-129		2.54	23.9	
1,4-Dioxane	54		"	2000		2.69	70-130	Low Bias	37.6	30	Non-dir.
2,2-Dichloropropane	48		"	50.0		96.0	65.5-131		7.67	22	
2-Butanone	42		"	50.0		84.4	70-130		0.590	30	
2-Chlorotoluene	42		"	50.0		84.9	64.2-120		6.96	23.3	
4-Chlorotoluene	44		"	50.0		88.7	68.8-129		5.38	23.5	
Acetone	34		"	50.0		67.6	70-130	Low Bias	0.148	30	
Benzene	48		"	50.0		96.4	70.4-128		6.04	21.8	
Bromobenzene	43		"	50.0		85.5	66.8-127		5.10	23.1	
Bromochloromethane	44		"	50.0		87.4	71.6-133		7.97	22	
Bromodichloromethane	45		"	50.0		90.5	70.6-136		4.43	22.7	
Bromoform	45		"	50.0		90.9	63.2-139		1.58	23.3	
Bromomethane	48		"	50.0		96.7	50.2-135		4.35	29.1	
Carbon tetrachloride	48		"	50.0		96.8	71.9-140		8.37	22.4	
Chlorobenzene	47		"	50.0		93.1	76.4-127		3.52	21.8	
Chloroethane	45		"	50.0		90.7	50.8-142		4.23	24	
Chloroform	46		"	50.0		91.9	73.6-132		6.98	21.9	
Chloromethane	40		"	50.0		79.6	32.9-131		3.11	22.8	
cis-1,2-Dichloroethylene	47		"	50.0		94.9	69.5-128		7.64	22	
cis-1,3-Dichloropropylene	46		"	50.0		92.7	66.6-129		2.39	22.7	
Dibromochloromethane	46		"	50.0		92.8	71.4-135		1.24	22.1	
Dibromomethane	46		"	50.0		91.3	72.3-133		3.44	23.1	
Dichlorodifluoromethane	36		"	50.0		72.4	39.4-108		4.09	26	
Ethyl Benzene	47		"	50.0		93.3	75.2-131		4.03	22.5	
Hexachlorobutadiene	45		"	50.0		90.6	60.5-130		5.52	25.4	
Isopropylbenzene	49		"	50.0		99.0	73.7-136		5.16	23.2	
Methyl tert-butyl ether (MTBE)	49		"	50.0		97.6	56.5-140		1.51	30.6	
Methylene chloride	50		"	50.0		99.4	58.4-120		4.22	23.8	
Naphthalene	49		"	50.0		97.6	55.2-150		3.40	29.4	
n-Butylbenzene	44		"	50.0		87.5	63.7-125		6.82	25.3	
n-Propylbenzene	45		"	50.0		89.8	67.8-128		6.84	28.9	
o-Xylene	45		"	50.0		89.0	70.4-126		3.12	22.7	
p- & m- Xylenes	92		"	100		91.9	73.8-130		4.62	23	
p-Isopropyltoluene	48		"	50.0		95.4	71.1-131		5.92	23.4	

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

## York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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## Batch BH20134 - EPA 5035B

## LCS Dup (BH20134-BSD1)

Prepared &amp; Analyzed: 08/03/2012

sec-Butylbenzene	46		ug/L	50.0		91.4	68.6-126		6.93	23.3	
Styrene	46		"	50.0		92.0	71.7-126		3.76	21.9	
tert-Butylbenzene	58		"	50.0		117	76.4-151		6.62	45.4	
Tetrachloroethylene	47		"	50.0		94.1	65-168		4.20	27.9	
Toluene	46		"	50.0		92.2	72.5-127		4.16	22.9	
trans-1,2-Dichloroethylene	48		"	50.0		96.9	62.2-144		6.22	24.6	
trans-1,3-Dichloropropylene	45		"	50.0		89.6	66-135		3.08	23	
Trichloroethylene	46		"	50.0		92.6	72.6-133		3.94	21.9	
Trichlorofluoromethane	44		"	50.0		88.3	51.5-131		7.98	24.2	
Vinyl Chloride	41		"	50.0		82.1	47-126		5.36	25.5	
Vinyl acetate	24		"	50.0		47.7	70-130	Low Bias	0.710	30	
Surrogate: 1,2-Dichloroethane-d4	48.0		"	50.0		96.0	72.6-129				
Surrogate: p-Bromofluorobenzene	51.0		"	50.0		102	63.5-145				
Surrogate: Toluene-d8	48.3		"	50.0		96.7	81.2-127				



**Notes and Definitions**

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
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.
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); therefore, 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/>	
ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
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.

## Field Chain-of-Custody Record

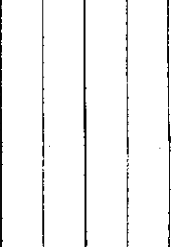


Page 7 of 22

ANALYTICAL LABORATORIES, INC.

1120 RESEARCH DR. STRATFORD, CT 06615  
(203) 325-1371 FAX (203) 357-0166

**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. Your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 12G0902

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type																																																																												
Co: Mid-Hudson Geosciences Address: 1003 Rt 44/55 POBox332, Clintonville, NY 12515-0332 Phone.: 845 883 5726 Contact: Kathie Beinkafner E-mail: rockdoctor@optonline.net		BOTH  Name: _____ Company: _____ Address: _____		American Cleaners Name: Mr. Erez Haleviah Phone: 845 343 0111 x102 Address: 380 Route 211 East Middletown, NY 10940 E-mail: ezez19@gmail.com		ACMiddletown Re-Eval Purchase Order # _____		RUSH-Same Day RUSH-Next Day RUSH-Two Day RUSH-Three Day RUSH-Four Day Standard (5-7day)		Summary Report QA Report CT RCP CT RCP DQA/DUE Pkg NY ASP A Package NY ASP B Package NUDEP Reduced Deliv																																																																												
<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> <p>             Katharine J. Beinkafner            Samples Collected/Authorized By (Signature)              Katharine J. Beinkafner            Name (printed)         </p>																																																																																						
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<p><b>Comments:</b></p> <p>Chemical of concern: PCE</p> <p>           Preservation (check all applicable): 4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> HNO<sub>3</sub> <input type="checkbox"/> H<sub>2</sub>O<sub>2</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> Other <input type="checkbox"/> </p> <p>           Special Instructions: <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter         </p> <p>           Samples Received By: <u>Katharine Beinkafner</u> Date/Time: <u>7/27/12 8AM</u>            Samples Received in LAB by: <u>Cherie</u> Date/Time: <u>7/30/12-1500</u>            Temperature on Receipt: <u>4.4</u> °C         </p>																																																																																						



# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 10/09/2012  
**Client Project ID: American Cleaners Middletown VES**  
York Project (SDG) No.: 12J0066

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 10/09/2012  
Client Project ID: American Cleaners Middletown VES  
York Project (SDG) No.: 12J0066

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

---

## 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 28, 2012 and listed below. The project was identified as your project: **American Cleaners Middletown VES**.

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>
12J0066-01	XP2-A	Soil	09/24/2012	09/28/2012
12J0066-02	XP2-B	Soil	09/24/2012	09/28/2012
12J0066-03	Trip Blank	Water	09/24/2012	09/28/2012
12J0066-04	Field Blank	Water	09/24/2012	09/28/2012
12J0066-05	VES 092712	Soil Vapor	09/27/2012	09/28/2012

## **General Notes for York Project (SDG) No.: 12J0066**

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:** 10/09/2012

Robert Q. Bradley  
Executive Vice President / Laboratory Director

**YORK**



### Sample Information

**Client Sample ID:** XP2-A

**York Sample ID:** 12J0066-01

York Project (SDG) No.

12J0066

Client Project ID

American Cleaners Middletown VES

Matrix

Soil

Collection Date/Time

September 24, 2012 3:00 pm

Date Received

09/28/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3900	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	710	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5600	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	1800	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	4200	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2800	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2300	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2600	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3000	56000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	4000	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3800	56000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3100	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	7500	56000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2200	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2400	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2800	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2300	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2500	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3300	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	3600	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	4100	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	74000	280000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2600	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
78-93-3	2-Butanone	ND		ug/kg dry	4900	56000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2300	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2900	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
67-64-1	Acetone	ND		ug/kg dry	37000	56000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
71-43-2	Benzene	ND		ug/kg dry	2800	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
108-86-1	Bromobenzene	ND		ug/kg dry	3700	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2200	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	4200	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
75-25-2	Bromoform	ND		ug/kg dry	2700	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
74-83-9	Bromomethane	ND		ug/kg dry	6200	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS

### Sample Information

**Client Sample ID:** XP2-A

**York Sample ID:** 12J0066-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Soil

September 24, 2012 3:00 pm

09/28/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2700	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2800	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
75-00-3	Chloroethane	ND		ug/kg dry	3100	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
67-66-3	Chloroform	ND		ug/kg dry	2800	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
74-87-3	Chloromethane	ND		ug/kg dry	3100	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1600	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2600	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	3300	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
74-95-3	Dibromomethane	ND		ug/kg dry	3600	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2600	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	1600	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3800	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	3000	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2100	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
75-09-2	Methylene chloride	<b>63000</b>	B	ug/kg dry	5100	56000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
91-20-3	Naphthalene	ND		ug/kg dry	6100	56000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2500	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2300	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
95-47-6	o-Xylene	ND		ug/kg dry	2100	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	5200	56000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	1700	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2600	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
100-42-5	Styrene	ND		ug/kg dry	1900	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2600	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
127-18-4	Tetrachloroethylene	<b>1200000</b>		ug/kg dry	6000	56000	10000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 21:17	SS
108-88-3	Toluene	ND		ug/kg dry	2200	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2900	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2900	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2800	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2000	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	5100	56000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1500	28000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	3300	84000	5000	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:53	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								

### Sample Information

**Client Sample ID:** XP2-A

**York Sample ID:** 12J0066-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Soil

September 24, 2012 3:00 pm

09/28/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	96.7 %			72.6-129						
460-00-4	Surrogate: p-Bromofluorobenzene	105 %			63.5-145						
2037-26-5	Surrogate: Toluene-d8	96.4 %			81.2-127						

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	88.8		%	0.100	0.100	1	SM 2540G	10/05/2012 14:09	10/05/2012 14:09	JCC

### Sample Information

**Client Sample ID:** XP2-B

**York Sample ID:** 12J0066-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Soil

September 24, 2012 3:00 pm

09/28/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.81	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.15	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.2	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.38	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.88	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.58	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.48	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.54	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.62	12	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.83	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.78	12	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.64	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.6	12	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.46	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.50	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.59	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.47	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.52	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.68	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS

### Sample Information

**Client Sample ID:** XP2-B

**York Sample ID:** 12J0066-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Soil

September 24, 2012 3:00 pm

09/28/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.75	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.84	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	58	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.55	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.0	12	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.47	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.59	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
67-64-1	Acetone	ND		ug/kg dry	7.7	12	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
71-43-2	Benzene	ND		ug/kg dry	0.57	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.76	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.46	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.87	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
75-25-2	Bromoform	ND		ug/kg dry	0.55	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.3	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.57	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.57	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.65	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
67-66-3	Chloroform	ND		ug/kg dry	0.59	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.64	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
156-59-2	cis-1,2-Dichloroethylene	67		ug/kg dry	0.34	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.53	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.68	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.74	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.53	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.34	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.80	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.62	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.43	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
75-09-2	Methylene chloride	2.4	J, B	ug/kg dry	1.1	12	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.3	12	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.51	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.49	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.43	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.1	12	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS

### Sample Information

**Client Sample ID:** XP2-B

**York Sample ID:** 12J0066-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Soil

September 24, 2012 3:00 pm

09/28/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.36	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.54	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
100-42-5	Styrene	ND		ug/kg dry	0.39	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.55	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
127-18-4	Tetrachloroethylene	820		ug/kg dry	62	580	100	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 15:28	SS
108-88-3	Toluene	ND		ug/kg dry	0.45	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.61	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.60	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
79-01-6	Trichloroethylene	63		ug/kg dry	0.58	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.41	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	1.1	12	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.32	5.8	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.69	18	1	EPA SW846-8260B	10/04/2012 08:46	10/04/2012 14:18	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	101 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	89.2 %		81.2-127							

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.6		%	0.100	0.100	1	SM 2540G	10/05/2012 14:09	10/05/2012 14:09	JCC

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12J0066-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Water

September 24, 2012 3:00 pm

09/28/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS

## Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12J0066-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Water

September 24, 2012 3:00 pm

09/28/2012

### Volatile Organics, 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS



### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12J0066-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Water

September 24, 2012 3:00 pm

09/28/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 08:54	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	98.3 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	92.8 %	81.2-127								

### Sample Information

**Client Sample ID:** Field Blank

**York Sample ID:** 12J0066-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Water

September 24, 2012 3:00 pm

09/28/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS

### Sample Information

**Client Sample ID:** Field Blank

**York Sample ID:** 12J0066-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Water

September 24, 2012 3:00 pm

09/28/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
75-09-2	Methylene chloride	5.3	J	ug/L	2.4	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	10/03/2012 14:38	10/04/2012 09:28	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	96.8 %	72.6-129								

### Sample Information

**Client Sample ID:** Field Blank

**York Sample ID:** 12J0066-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Water

September 24, 2012 3:00 pm

09/28/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: p-Bromofluorobenzene	102 %			63.5-145						
2037-26-5	Surrogate: Toluene-d8	96.8 %			81.2-127						

### Sample Information

**Client Sample ID:** VES 092712

**York Sample ID:** 12J0066-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Soil Vapor

September 27, 2012 3:00 pm

09/28/2012

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.20	1.1	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	0.34	1.4	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	0.11	1.6	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.28	1.1	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.099	0.82	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.12	0.81	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	0.33	1.5	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
95-63-6	1,2,4-Trimethylbenzene	10		ug/m <sup>3</sup>	0.12	5.0	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.6	1.6	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.31	1.2	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.20	0.82	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.21	0.94	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.24	1.4	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
108-67-8	1,3,5-Trimethylbenzene	3.2		ug/m <sup>3</sup>	0.13	2.0	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.13	0.88	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.22	1.2	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	0.27	1.2	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.66	7.3	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
78-93-3	2-Butanone	42		ug/m <sup>3</sup>	0.24	0.60	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
591-78-6	2-Hexanone	ND		ug/m <sup>3</sup>	0.46	1.7	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.30	0.83	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
67-64-1	Acetone	29	B	ug/m <sup>3</sup>	0.15	0.48	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
71-43-2	Benzene	0.71		ug/m <sup>3</sup>	0.097	0.65	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	0.13	1.1	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD

### Sample Information

**Client Sample ID:** VES 092712

**York Sample ID:** 12J0066-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Soil Vapor

September 27, 2012 3:00 pm

09/28/2012

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	9.3		ug/m <sup>3</sup>	0.30	1.3	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	0.38	2.1	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.095	0.79	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
75-15-0	Carbon disulfide	2.0		ug/m <sup>3</sup>	0.076	0.63	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.15	0.64	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	0.17	0.94	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.064	0.54	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
67-66-3	Chloroform	37		ug/m <sup>3</sup>	0.15	0.99	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.13	0.42	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
156-59-2	cis-1,2-Dichloroethylene	130		ug/m <sup>3</sup>	0.14	0.81	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.23	0.92	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
110-82-7	Cyclohexane	0.98		ug/m <sup>3</sup>	0.084	0.70	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.6	1.6	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
75-71-8	Dichlorodifluoromethane	2.2		ug/m <sup>3</sup>	0.25	1.0	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
141-78-6	Ethyl acetate	ND		ug/m <sup>3</sup>	0.18	0.73	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
100-41-4	Ethyl Benzene	5.2		ug/m <sup>3</sup>	0.16	0.88	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	0.39	2.2	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	0.18	0.50	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.83	0.83	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.088	0.73	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
75-09-2	Methylene chloride	4.0	B	ug/m <sup>3</sup>	0.17	0.71	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.10	0.83	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
110-54-3	n-Hexane	1.0		ug/m <sup>3</sup>	0.086	0.72	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
95-47-6	o-Xylene	7.0		ug/m <sup>3</sup>	0.16	0.88	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
1330-20-7P/M	p- & m- Xylenes	20		ug/m <sup>3</sup>	0.30	0.88	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
622-96-8	p-Ethyltoluene	6.4		ug/m <sup>3</sup>	0.18	5.0	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
115-07-01	Propylene	ND		ug/m <sup>3</sup>	0.16	0.35	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
100-42-5	Styrene	9.4		ug/m <sup>3</sup>	0.16	0.87	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
127-18-4	Tetrachloroethylene	4400		ug/m <sup>3</sup>	4.1	34	50	EPA Compendium TO-15	10/08/2012 09:00	10/08/2012 20:43	TD
109-99-9	Tetrahydrofuran	61		ug/m <sup>3</sup>	0.15	0.60	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
108-88-3	Toluene	4.8		ug/m <sup>3</sup>	0.18	0.77	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
156-60-5	trans-1,2-Dichloroethylene	0.81		ug/m <sup>3</sup>	0.097	0.81	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.17	0.92	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
79-01-6	Trichloroethylene	120		ug/m <sup>3</sup>	0.13	0.55	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
75-69-4	Trichlorofluoromethane (Freon 11)	1.3		ug/m <sup>3</sup>	0.069	1.1	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.11	1.4	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD

### Sample Information

**Client Sample ID:** VES 092712

**York Sample ID:** 12J0066-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0066

American Cleaners Middletown VES

Soil Vapor

September 27, 2012 3:00 pm

09/28/2012

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.12	1.0	2	EPA Compendium TO-15	10/08/2012 09:00	10/09/2012 09:04	TD
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	102 %		70-130							



## Analytical Batch Summary

**Batch ID:** BJ20210      **Preparation Method:** EPA 5030B      **Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
12J0066-03	Trip Blank	10/03/12
12J0066-04	Field Blank	10/03/12
BJ20210-BLK1	Blank	10/03/12
BJ20210-BS1	LCS	10/03/12
BJ20210-BSD1	LCS Dup	10/03/12

**Batch ID:** BJ20269      **Preparation Method:** EPA 5035B      **Prepared By:** VRL

YORK Sample ID	Client Sample ID	Preparation Date
12J0066-01	XP2-A	10/04/12
12J0066-02	XP2-B	10/04/12
BJ20269-BLK1	Blank	10/04/12
BJ20269-BS1	LCS	10/04/12
BJ20269-BSD1	LCS Dup	10/04/12

**Batch ID:** BJ20320      **Preparation Method:** % Solids Prep      **Prepared By:** JCC

YORK Sample ID	Client Sample ID	Preparation Date
12J0066-01	XP2-A	10/05/12
12J0066-02	XP2-B	10/05/12

**Batch ID:** BJ20481      **Preparation Method:** EPA TO15 PREP      **Prepared By:** TD

YORK Sample ID	Client Sample ID	Preparation Date
12J0066-05	VES 092712	10/08/12
BJ20481-BLK1	Blank	10/08/12
BJ20481-BS1	LCS	10/08/12

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20210 - EPA 5030B**

**Blank (BJ20210-BLK1)**

Prepared: 10/03/2012 Analyzed: 10/04/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	50	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	10	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylene chloride	ND	10	"
Naphthalene	ND	10	"
n-Butylbenzene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
o-Xylene	ND	5.0	"
p- & m- Xylenes	ND	10	"
p-Isopropyltoluene	ND	5.0	"

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BJ20210 - EPA 5030B

##### Blank (BJ20210-BLK1)

Prepared: 10/03/2012 Analyzed: 10/04/2012

sec-Butylbenzene	ND	5.0	ug/L								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
Surrogate: 1,2-Dichloroethane-d4	50.7		"	50.0		101	72.6-129				
Surrogate: p-Bromofluorobenzene	51.8		"	50.0		104	63.5-145				
Surrogate: Toluene-d8	46.9		"	50.0		93.7	81.2-127				

##### LCS (BJ20210-BS1)

Prepared: 10/03/2012 Analyzed: 10/04/2012

1,1,1,2-Tetrachloroethane	56		ug/L	50.0		112	82.3-130				
1,1,1-Trichloroethane	60		"	50.0		119	75.6-137				
1,1,2,2-Tetrachloroethane	49		"	50.0		97.2	71.3-131				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	59		"	50.0		117	71.1-129				
1,1,2-Trichloroethane	53		"	50.0		105	74.5-129				
1,1-Dichloroethane	58		"	50.0		116	79.6-132				
1,1-Dichloroethylene	63		"	50.0		126	80.2-146				
1,1-Dichloropropylene	57		"	50.0		114	75-136				
1,2,3-Trichlorobenzene	55		"	50.0		110	66.1-136				
1,2,3-Trichloropropane	47		"	50.0		93.8	63-131				
1,2,4-Trichlorobenzene	52		"	50.0		103	70.6-136				
1,2,4-Trimethylbenzene	51		"	50.0		102	75.3-135				
1,2-Dibromo-3-chloropropane	40		"	50.0		80.7	58.9-140				
1,2-Dibromoethane	54		"	50.0		108	79-130				
1,2-Dichlorobenzene	50		"	50.0		99.3	76.1-122				
1,2-Dichloroethane	57		"	50.0		113	74.6-132				
1,2-Dichloropropane	51		"	50.0		103	76.9-129				
1,3,5-Trimethylbenzene	49		"	50.0		97.5	70.6-127				
1,3-Dichlorobenzene	51		"	50.0		102	77-124				
1,3-Dichloropropane	52		"	50.0		104	75.8-126				
1,4-Dichlorobenzene	51		"	50.0		103	76.6-125				
1,4-Dioxane	77		"	50.0		153	70-130	High Bias			
2,2-Dichloropropane	55		"	50.0		109	69-133				
2-Butanone	39		"	50.0		78.4	70-130				
2-Chlorotoluene	48		"	50.0		96.8	66.3-119				
4-Chlorotoluene	49		"	50.0		98.9	69.2-127				
Acetone	27		"	50.0		53.2	70-130	Low Bias			
Benzene	57		"	50.0		114	76.2-129				
Bromobenzene	48		"	50.0		95.1	71.3-123				
Bromochloromethane	59		"	50.0		117	70.8-137				
Bromodichloromethane	53		"	50.0		106	79.7-134				
Bromoform	56		"	50.0		112	70.5-141				
Bromomethane	63		"	50.0		126	43.9-147				
Carbon tetrachloride	61		"	50.0		121	78.1-138				
Chlorobenzene	54		"	50.0		107	80.4-125				
Chloroethane	56		"	50.0		113	55.8-140				
Chloroform	58		"	50.0		117	76.6-133				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BJ20210 - EPA 5030B</b>											
<b>LCS (BJ20210-BS1)</b>						Prepared: 10/03/2012 Analyzed: 10/04/2012					
Chloromethane	50		ug/L	50.0		100	48.8-115				
cis-1,2-Dichloroethylene	60		"	50.0		119	75.1-128				
cis-1,3-Dichloropropylene	51		"	50.0		101	74.5-128				
Dibromochloromethane	55		"	50.0		109	79.8-134				
Dibromomethane	54		"	50.0		109	79-130				
Dichlorodifluoromethane	51		"	50.0		102	47.1-101	High Bias			
Ethyl Benzene	52		"	50.0		104	80.8-128				
Hexachlorobutadiene	48		"	50.0		96.8	64.8-128				
Isopropylbenzene	54		"	50.0		107	75.5-135				
Methyl tert-butyl ether (MTBE)	57		"	50.0		113	65.1-140				
Methylene chloride	57		"	50.0		115	61.3-120				
Naphthalene	59		"	50.0		117	62.3-148				
n-Butylbenzene	48		"	50.0		95.1	67.2-123				
n-Propylbenzene	50		"	50.0		101	70.5-127				
o-Xylene	50		"	50.0		99.6	75.9-122				
p- & m- Xylenes	100		"	100		102	77.7-127				
p-Isopropyltoluene	52		"	50.0		104	75.6-129				
sec-Butylbenzene	49		"	50.0		98.7	71.5-125				
Styrene	51		"	50.0		102	77.8-123				
tert-Butylbenzene	65		"	50.0		131	75.9-151				
Tetrachloroethylene	56		"	50.0		111	63.6-167				
Toluene	53		"	50.0		105	77-123				
trans-1,2-Dichloroethylene	61		"	50.0		122	76.3-139				
trans-1,3-Dichloropropylene	52		"	50.0		104	72.5-137				
Trichloroethylene	53		"	50.0		106	77.9-130				
Trichlorofluoromethane	60		"	50.0		120	57.4-133				
Vinyl Chloride	52		"	50.0		104	54.9-124				
Vinyl acetate	23		"	50.0		45.3	70-130	Low Bias			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.8</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.3</i>		<i>"</i>	<i>50.0</i>		<i>98.6</i>	<i>81.2-127</i>				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BJ20210 - EPA 5030B</b>											
<b>LCS Dup (BJ20210-BSD1)</b>						Prepared: 10/03/2012 Analyzed: 10/04/2012					
1,1,1,2-Tetrachloroethane	58		ug/L	50.0		116	82.3-130		3.56	21.1	
1,1,1-Trichloroethane	56		"	50.0		113	75.6-137		5.36	19.7	
1,1,2,2-Tetrachloroethane	51		"	50.0		103	71.3-131		5.38	20.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54		"	50.0		108	71.1-129		8.40	21.7	
1,1,2-Trichloroethane	54		"	50.0		108	74.5-129		2.12	20.3	
1,1-Dichloroethane	56		"	50.0		113	79.6-132		2.95	20.6	
1,1-Dichloroethylene	59		"	50.0		117	80.2-146		7.29	20	
1,1-Dichloropropylene	55		"	50.0		110	75-136		4.12	19.3	
1,2,3-Trichlorobenzene	52		"	50.0		105	66.1-136		4.93	21.6	
1,2,3-Trichloropropane	51		"	50.0		103	63-131		8.96	23.9	
1,2,4-Trichlorobenzene	49		"	50.0		98.1	70.6-136		5.15	21.7	
1,2,4-Trimethylbenzene	50		"	50.0		101	75.3-135		1.83	18.8	
1,2-Dibromo-3-chloropropane	44		"	50.0		87.8	58.9-140		8.43	27.7	
1,2-Dibromoethane	54		"	50.0		108	79-130		0.388	23	
1,2-Dichlorobenzene	50		"	50.0		101	76.1-122		1.70	19.8	
1,2-Dichloroethane	54		"	50.0		109	74.6-132		4.04	20.2	
1,2-Dichloropropane	52		"	50.0		104	76.9-129		1.20	20.7	
1,3,5-Trimethylbenzene	47		"	50.0		94.7	70.6-127		2.89	18.9	
1,3-Dichlorobenzene	50		"	50.0		99.1	77-124		2.47	19.2	
1,3-Dichloropropane	52		"	50.0		104	75.8-126		0.0385	22.1	
1,4-Dichlorobenzene	52		"	50.0		103	76.6-125		0.525	18.6	
1,4-Dioxane	52		"	50.0		104	70-130		38.0	30	Non-dir.
2,2-Dichloropropane	52		"	50.0		104	69-133		4.60	19.8	
2-Butanone	41		"	50.0		81.5	70-130		3.80	30	
2-Chlorotoluene	47		"	50.0		93.2	66.3-119		3.79	21.6	
4-Chlorotoluene	47		"	50.0		94.4	69.2-127		4.63	19	
Acetone	27		"	50.0		53.6	70-130	Low Bias	0.749	30	
Benzene	53		"	50.0		106	76.2-129		6.87	19	
Bromobenzene	49		"	50.0		97.6	71.3-123		2.57	20.3	
Bromochloromethane	56		"	50.0		111	70.8-137		5.19	23.9	
Bromodichloromethane	53		"	50.0		107	79.7-134		0.582	21	
Bromoform	54		"	50.0		109	70.5-141		2.47	21.8	
Bromomethane	62		"	50.0		124	43.9-147		2.08	28.4	
Carbon tetrachloride	58		"	50.0		115	78.1-138		4.96	20.1	
Chlorobenzene	53		"	50.0		106	80.4-125		0.637	19.9	
Chloroethane	53		"	50.0		107	55.8-140		5.41	23.3	
Chloroform	55		"	50.0		111	76.6-133		5.20	20.3	
Chloromethane	47		"	50.0		94.3	48.8-115		6.19	24.5	
cis-1,2-Dichloroethylene	56		"	50.0		112	75.1-128		6.27	20.5	
cis-1,3-Dichloropropylene	54		"	50.0		108	74.5-128		6.41	19.9	
Dibromochloromethane	57		"	50.0		113	79.8-134		3.47	21.3	
Dibromomethane	55		"	50.0		111	79-130		2.19	22.4	
Dichlorodifluoromethane	48		"	50.0		95.3	47.1-101		6.93	23.9	
Ethyl Benzene	53		"	50.0		106	80.8-128		1.88	19.2	
Hexachlorobutadiene	48		"	50.0		96.9	64.8-128		0.145	20.6	
Isopropylbenzene	53		"	50.0		106	75.5-135		0.524	20	
Methyl tert-butyl ether (MTBE)	55		"	50.0		109	65.1-140		3.75	23.6	
Methylene chloride	55		"	50.0		109	61.3-120		4.53	20.4	
Naphthalene	56		"	50.0		113	62.3-148		3.50	27.1	
n-Butylbenzene	47		"	50.0		93.6	67.2-123		1.67	19.1	
n-Propylbenzene	49		"	50.0		97.4	70.5-127		3.27	23.4	
o-Xylene	51		"	50.0		102	75.9-122		2.18	19.3	
p- & m- Xylenes	100		"	100		102	77.7-127		0.540	18.6	
p-Isopropyltoluene	50		"	50.0		99.4	75.6-129		4.06	19.1	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20210 - EPA 5030B**

**LCS Dup (BJ20210-BSD1)**

Prepared: 10/03/2012 Analyzed: 10/04/2012

sec-Butylbenzene	49		ug/L	50.0		97.4	71.5-125		1.29	18.9	
Styrene	52		"	50.0		103	77.8-123		1.17	20.9	
tert-Butylbenzene	65		"	50.0		130	75.9-151		0.506	20.9	
Tetrachloroethylene	54		"	50.0		108	63.6-167		2.84	27.7	
Toluene	53		"	50.0		106	77-123		0.643	18.7	
trans-1,2-Dichloroethylene	57		"	50.0		113	76.3-139		7.30	19.5	
trans-1,3-Dichloropropylene	52		"	50.0		104	72.5-137		0.540	19.3	
Trichloroethylene	53		"	50.0		106	77.9-130		0.151	20.5	
Trichlorofluoromethane	56		"	50.0		111	57.4-133		7.62	21.4	
Vinyl Chloride	50		"	50.0		101	54.9-124		2.58	22.3	
Vinyl acetate	24		"	50.0		48.6	70-130	Low Bias	6.90	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.2</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.4</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>50.2</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>81.2-127</i>				

**Batch BJ20269 - EPA 5035B**

**Blank (BJ20269-BLK1)**

Prepared & Analyzed: 10/04/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	50	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	10	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"



## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

## York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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## Batch BJ20269 - EPA 5035B

## Blank (BJ20269-BLK1)

Prepared &amp; Analyzed: 10/04/2012

Chloroform	ND	5.0	ug/kg wet								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	5.5	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
Surrogate: 1,2-Dichloroethane-d4	47.4		ug/L	50.0		94.9	72.6-129				
Surrogate: p-Bromofluorobenzene	53.0		"	50.0		106	63.5-145				
Surrogate: Toluene-d8	50.2		"	50.0		100	81.2-127				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BJ20269 - EPA 5035B</b>											
<b>LCS (BJ20269-BS1)</b>						Prepared & Analyzed: 10/04/2012					
1,1,1,2-Tetrachloroethane	56		ug/L	50.0		113	71.7-135				
1,1,1-Trichloroethane	57		"	50.0		115	72.6-137				
1,1,2,2-Tetrachloroethane	50		"	50.0		99.0	65.4-135				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		111	67.8-129				
1,1,2-Trichloroethane	52		"	50.0		104	68.6-132				
1,1-Dichloroethane	56		"	50.0		112	71.7-131				
1,1-Dichloroethylene	58		"	50.0		117	74.4-148				
1,1-Dichloropropylene	55		"	50.0		111	72.5-135				
1,2,3-Trichlorobenzene	57		"	50.0		115	62.7-139				
1,2,3-Trichloropropane	51		"	50.0		102	61.7-131				
1,2,4-Trichlorobenzene	54		"	50.0		109	65-139				
1,2,4-Trimethylbenzene	52		"	50.0		104	73.1-136				
1,2-Dibromo-3-chloropropane	49		"	50.0		98.1	53.3-149				
1,2-Dibromoethane	55		"	50.0		111	72.7-134				
1,2-Dichlorobenzene	49		"	50.0		98.7	71.6-125				
1,2-Dichloroethane	55		"	50.0		109	68.7-136				
1,2-Dichloropropane	52		"	50.0		105	68.2-136				
1,3,5-Trimethylbenzene	49		"	50.0		97.8	69.7-127				
1,3-Dichlorobenzene	50		"	50.0		100	69.8-129				
1,3-Dichloropropane	53		"	50.0		106	69.3-132				
1,4-Dichlorobenzene	52		"	50.0		104	71.3-129				
1,4-Dioxane	81		"	50.0		162	70-130	High Bias			
2,2-Dichloropropane	54		"	50.0		108	65.5-131				
2-Butanone	44		"	50.0		88.7	70-130				
2-Chlorotoluene	46		"	50.0		92.7	64.2-120				
4-Chlorotoluene	49		"	50.0		98.1	68.8-129				
Acetone	34		"	50.0		68.7	70-130	Low Bias			
Benzene	53		"	50.0		107	70.4-128				
Bromobenzene	48		"	50.0		96.9	66.8-127				
Bromochloromethane	55		"	50.0		111	71.6-133				
Bromodichloromethane	51		"	50.0		103	70.6-136				
Bromoform	54		"	50.0		109	63.2-139				
Bromomethane	64		"	50.0		128	50.2-135				
Carbon tetrachloride	58		"	50.0		115	71.9-140				
Chlorobenzene	53		"	50.0		107	76.4-127				
Chloroethane	53		"	50.0		107	50.8-142				
Chloroform	55		"	50.0		110	73.6-132				
Chloromethane	47		"	50.0		94.6	32.9-131				
cis-1,2-Dichloroethylene	55		"	50.0		110	69.5-128				
cis-1,3-Dichloropropylene	54		"	50.0		108	66.6-129				
Dibromochloromethane	55		"	50.0		110	71.4-135				
Dibromomethane	55		"	50.0		109	72.3-133				
Dichlorodifluoromethane	48		"	50.0		96.5	39.4-108				
Ethyl Benzene	54		"	50.0		108	75.2-131				
Hexachlorobutadiene	52		"	50.0		104	60.5-130				
Isopropylbenzene	53		"	50.0		106	73.7-136				
Methyl tert-butyl ether (MTBE)	57		"	50.0		113	56.5-140				
Methylene chloride	70		"	50.0		140	58.4-120	High Bias			
Naphthalene	57		"	50.0		115	55.2-150				
n-Butylbenzene	49		"	50.0		97.3	63.7-125				
n-Propylbenzene	49		"	50.0		97.7	67.8-128				
o-Xylene	50		"	50.0		101	70.4-126				
p- & m- Xylenes	100		"	100		104	73.8-130				
p-Isopropyltoluene	51		"	50.0		103	71.1-131				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BJ20269 - EPA 5035B</b>											
<b>LCS (BJ20269-BS1)</b>						Prepared & Analyzed: 10/04/2012					
sec-Butylbenzene	49		ug/L	50.0		98.1	68.6-126				
Styrene	52		"	50.0		104	71.7-126				
tert-Butylbenzene	63		"	50.0		127	76.4-151				
Tetrachloroethylene	55		"	50.0		111	65-168				
Toluene	52		"	50.0		105	72.5-127				
trans-1,2-Dichloroethylene	56		"	50.0		112	62.2-144				
trans-1,3-Dichloropropylene	54		"	50.0		108	66-135				
Trichloroethylene	53		"	50.0		106	72.6-133				
Trichlorofluoromethane	56		"	50.0		113	51.5-131				
Vinyl Chloride	51		"	50.0		102	47-126				
Vinyl acetate	25		"	50.0		49.9	70-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	51.8		"	50.0		104	72.6-129				
Surrogate: p-Bromofluorobenzene	49.4		"	50.0		98.8	63.5-145				
Surrogate: Toluene-d8	48.2		"	50.0		96.4	81.2-127				
<b>LCS Dup (BJ20269-BSD1)</b>						Prepared & Analyzed: 10/04/2012					
1,1,1,2-Tetrachloroethane	56		ug/L	50.0		111	71.7-135		1.29	22.3	
1,1,1-Trichloroethane	57		"	50.0		114	72.6-137		0.595	22.5	
1,1,2,2-Tetrachloroethane	50		"	50.0		101	65.4-135		1.84	23.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57		"	50.0		115	67.8-129		3.61	25	
1,1,2-Trichloroethane	50		"	50.0		99.9	68.6-132		4.41	22.6	
1,1-Dichloroethane	57		"	50.0		115	71.7-131		2.31	22.8	
1,1-Dichloroethylene	61		"	50.0		122	74.4-148		4.63	26.8	
1,1-Dichloropropylene	57		"	50.0		113	72.5-135		2.55	22	
1,2,3-Trichlorobenzene	58		"	50.0		116	62.7-139		1.64	25.6	
1,2,3-Trichloropropane	50		"	50.0		99.7	61.7-131		2.06	24.2	
1,2,4-Trichlorobenzene	55		"	50.0		111	65-139		1.53	26.6	
1,2,4-Trimethylbenzene	56		"	50.0		111	73.1-136		7.11	24.3	
1,2-Dibromo-3-chloropropane	51		"	50.0		101	53.3-149		3.03	29.1	
1,2-Dibromoethane	55		"	50.0		110	72.7-134		0.907	21.1	
1,2-Dichlorobenzene	52		"	50.0		105	71.6-125		6.15	22.8	
1,2-Dichloroethane	54		"	50.0		109	68.7-136		0.128	21.6	
1,2-Dichloropropane	51		"	50.0		101	68.2-136		3.37	22.5	
1,3,5-Trimethylbenzene	52		"	50.0		105	69.7-127		7.04	23.3	
1,3-Dichlorobenzene	53		"	50.0		107	69.8-129		6.22	23.3	
1,3-Dichloropropane	51		"	50.0		103	69.3-132		3.26	22.4	
1,4-Dichlorobenzene	53		"	50.0		107	71.3-129		2.31	23.9	
1,4-Dioxane	51		"	50.0		102	70-130		46.1	30	Non-dir.
2,2-Dichloropropane	57		"	50.0		114	65.5-131		5.81	22	
2-Butanone	42		"	50.0		83.3	70-130		6.23	30	
2-Chlorotoluene	50		"	50.0		99.8	64.2-120		7.38	23.3	
4-Chlorotoluene	53		"	50.0		105	68.8-129		7.14	23.5	
Acetone	33		"	50.0		66.6	70-130	Low Bias	3.07	30	
Benzene	55		"	50.0		110	70.4-128		3.50	21.8	
Bromobenzene	51		"	50.0		102	66.8-127		5.54	23.1	
Bromochloromethane	55		"	50.0		110	71.6-133		0.380	22	
Bromodichloromethane	52		"	50.0		104	70.6-136		1.64	22.7	
Bromoform	55		"	50.0		111	63.2-139		2.02	23.3	
Bromomethane	66		"	50.0		133	50.2-135		3.65	29.1	
Carbon tetrachloride	58		"	50.0		116	71.9-140		0.846	22.4	
Chlorobenzene	54		"	50.0		108	76.4-127		0.987	21.8	
Chloroethane	56		"	50.0		113	50.8-142		5.80	24	
Chloroform	56		"	50.0		113	73.6-132		2.24	21.9	
Chloromethane	51		"	50.0		102	32.9-131		7.94	22.8	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BJ20269 - EPA 5035B</b>											
<b>LCS Dup (BJ20269-BSD1)</b>						Prepared & Analyzed: 10/04/2012					
cis-1,2-Dichloroethylene	57		ug/L	50.0		113	69.5-128		3.21	22	
cis-1,3-Dichloropropylene	54		"	50.0		108	66.6-129		0.649	22.7	
Dibromochloromethane	55		"	50.0		110	71.4-135		0.308	22.1	
Dibromomethane	54		"	50.0		108	72.3-133		1.29	23.1	
Dichlorodifluoromethane	51		"	50.0		102	39.4-108		5.09	26	
Ethyl Benzene	54		"	50.0		109	75.2-131		0.536	22.5	
Hexachlorobutadiene	55		"	50.0		110	60.5-130		5.69	25.4	
Isopropylbenzene	58		"	50.0		116	73.7-136		8.57	23.2	
Methyl tert-butyl ether (MTBE)	55		"	50.0		111	56.5-140		2.37	30.6	
Methylene chloride	72		"	50.0		145	58.4-120	High Bias	3.27	23.8	
Naphthalene	55		"	50.0		111	55.2-150		3.81	29.4	
n-Butylbenzene	52		"	50.0		105	63.7-125		7.31	25.3	
n-Propylbenzene	52		"	50.0		105	67.8-128		7.09	28.9	
o-Xylene	51		"	50.0		102	70.4-126		1.11	22.7	
p- & m- Xylenes	110		"	100		106	73.8-130		1.82	23	
p-Isopropyltoluene	56		"	50.0		111	71.1-131		7.82	23.4	
sec-Butylbenzene	52		"	50.0		104	68.6-126		6.05	23.3	
Styrene	52		"	50.0		104	71.7-126		0.173	21.9	
tert-Butylbenzene	72		"	50.0		144	76.4-151		12.4	45.4	
Tetrachloroethylene	58		"	50.0		116	65-168		4.45	27.9	
Toluene	53		"	50.0		106	72.5-127		0.854	22.9	
trans-1,2-Dichloroethylene	58		"	50.0		116	62.2-144		3.32	24.6	
trans-1,3-Dichloropropylene	52		"	50.0		105	66-135		3.36	23	
Trichloroethylene	53		"	50.0		106	72.6-133		0.0947	21.9	
Trichlorofluoromethane	59		"	50.0		118	51.5-131		4.17	24.2	
Vinyl Chloride	53		"	50.0		107	47-126		4.99	25.5	
Vinyl acetate	24		"	50.0		48.3	70-130	Low Bias	3.14	30	
Surrogate: 1,2-Dichloroethane-d4	51.5		"	50.0		103	72.6-129				
Surrogate: p-Bromofluorobenzene	51.1		"	50.0		102	63.5-145				
Surrogate: Toluene-d8	47.3		"	50.0		94.6	81.2-127				

**Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20481 - EPA TO15 PREP**

**Blank (BJ20481-BLK1)**

Prepared & Analyzed: 10/08/2012

Vinyl Chloride	ND	0.52	ug/m <sup>3</sup>
Vinyl acetate	ND	0.72	"
Trichloroethylene	ND	0.27	"
trans-1,3-Dichloropropylene	ND	0.46	"
trans-1,2-Dichloroethylene	ND	0.40	"
Toluene	ND	0.38	"
Tetrahydrofuran	ND	0.30	"
Tetrachloroethylene	ND	0.69	"
Styrene	ND	0.43	"
Propylene	ND	0.18	"
p-Ethyltoluene	ND	2.5	"
p- & m- Xylenes	ND	0.44	"
o-Xylene	ND	0.44	"
n-Hexane	ND	0.36	"
n-Heptane	ND	0.42	"
Methylene chloride	0.39	0.35	"
Methyl tert-butyl ether (MTBE)	ND	0.37	"
4-Methyl-2-pentanone	ND	0.42	"
Isopropanol	ND	0.25	"
Hexachlorobutadiene	ND	1.1	"
Ethyl Benzene	ND	0.44	"
Ethyl acetate	ND	0.37	"
Cyclohexane	ND	0.35	"
cis-1,3-Dichloropropylene	ND	0.46	"
cis-1,2-Dichloroethylene	ND	0.40	"
Chloromethane	ND	0.21	"
Chloroform	ND	0.50	"
Chloroethane	ND	0.27	"
Carbon tetrachloride	ND	0.32	"
Carbon disulfide	ND	0.32	"
Bromomethane	ND	0.39	"
Bromoform	ND	1.1	"
Bromodichloromethane	ND	0.63	"
Benzyl chloride	ND	0.53	"
Benzene	ND	0.32	"
Acetone	0.31	0.24	"
2-Hexanone	ND	0.83	"
2-Butanone	ND	0.30	"
1,4-Dioxane	ND	3.7	"
1,4-Dichlorobenzene	ND	0.61	"
1,3-Dichlorobenzene	ND	0.61	"
1,3-Butadiene	ND	0.44	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2-Dichlorotetrafluoroethane	ND	0.71	"
1,2-Dichloropropane	ND	0.47	"
1,2-Dichloroethane	ND	0.41	"
1,2-Dichlorobenzene	ND	0.61	"
1,2,4-Trimethylbenzene	ND	2.5	"
1,2,4-Trichlorobenzene	ND	0.75	"
1,1-Dichloroethylene	ND	0.40	"
1,1-Dichloroethane	ND	0.41	"
Trichlorofluoromethane (Freon 11)	ND	0.57	"
1,1,2-Trichloroethane	ND	0.55	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.78	"

**Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20481 - EPA TO15 PREP**

**Blank (BJ20481-BLK1)**

Prepared & Analyzed: 10/08/2012

1,1,2,2-Tetrachloroethane	ND	0.70	ug/m <sup>3</sup>
1,1,1-Trichloroethane	ND	0.55	"
Dichlorodifluoromethane	ND	0.50	"
1,2-Dibromoethane	ND	0.78	"
Dibromochloromethane	ND	0.82	"
Methyl Methacrylate	ND	0.42	"
Chlorobenzene	ND	0.47	"

*Surrogate: p-Bromofluorobenzene* 9.15 ppbv 10.0 91.5 70-130

**LCS (BJ20481-BS1)**

Prepared & Analyzed: 10/08/2012

Vinyl Chloride	11.7	ppbv	10.1	116	70-130	
Vinyl acetate	0.130	"	9.70	1.34	58.1-135	Low Bias
Trichloroethylene	10.9	"	10.2	107	70-130	
trans-1,3-Dichloropropylene	10.6	"	9.90	107	62-135	
trans-1,2-Dichloroethylene	10.4	"	9.50	109	58.3-130	
Toluene	13.1	"	10.8	121	64.9-126	
Tetrahydrofuran	13.6	"	10.2	134	44.6-146	
Tetrachloroethylene	12.4	"	10.5	118	70-130	
Styrene	14.4	"	10.7	135	66.4-132	High Bias
Propylene	12.0	"	11.0	109	62.4-150	
p-Ethyltoluene	12.9	"	10.4	124	73.8-146	
p- & m- Xylenes	25.4	"	21.0	121	56.6-136	
o-Xylene	13.7	"	10.8	127	67.8-133	
n-Hexane	11.1	"	10.3	108	59.7-130	
n-Heptane	11.7	"	10.4	113	62.3-134	
Methylene chloride	9.33	"	10.0	93.3	62.6-130	
Methyl tert-butyl ether (MTBE)	12.3	"	10.2	120	60.7-139	
4-Methyl-2-pentanone	12.3	"	10.0	123	64.5-158	
Isopropanol	12.6	"	9.90	127	60-150	
Hexachlorobutadiene	19.4	"	11.0	176	61.2-150	High Bias
Ethyl Benzene	12.8	"	10.7	120	68.4-125	
Ethyl acetate	16.9	"	10.0	169	40.6-150	High Bias
Cyclohexane	11.7	"	10.2	115	60.4-127	
cis-1,3-Dichloropropylene	12.1	"	10.7	113	65.5-129	
cis-1,2-Dichloroethylene	11.1	"	10.5	106	51.3-118	
Chloromethane	11.7	"	10.1	115	64.9-130	
Chloroform	10.7	"	10.0	107	65.1-130	
Chloroethane	12.2	"	10.1	121	52.1-131	
Carbon tetrachloride	10.2	"	10.1	101	70-130	
Carbon disulfide	10.8	"	10.0	108	61.8-111	
Bromomethane	9.76	"	10.2	95.7	60.1-140	
Bromoform	13.1	"	10.5	125	58.7-150	
Bromodichloromethane	11.4	"	10.2	112	65.3-127	
Benzyl chloride	8.90	"	10.2	87.3	62.5-150	
Benzene	12.2	"	10.4	118	69.5-130	
Acetone	10.7	"	10.0	107	55.3-133	
2-Hexanone	8.51	"	10.1	84.3	52-150	
2-Butanone	11.5	"	10.0	115	28.5-154	
1,4-Dioxane	10.3	"	10.2	101	50-150	
1,4-Dichlorobenzene	13.6	"	10.6	128	62.5-139	
1,3-Dichlorobenzene	13.1	"	10.2	128	71.9-153	
1,3-Butadiene	12.5	"	10.5	119	66.7-127	
1,3,5-Trimethylbenzene	13.5	"	10.6	127	65-152	
1,2-Dichlorotetrafluoroethane	10.6	"	10.1	105	63.3-129	



**Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20481 - EPA TO15 PREP**

**LCS (BJ20481-BS1)**

Prepared & Analyzed: 10/08/2012

1,2-Dichloropropane	12.6		ppbv	10.7		117	21.3-152				
1,2-Dichloroethane	11.0		"	10.4		106	51.2-124				
1,2-Dichlorobenzene	13.5		"	10.6		127	63.7-148				
1,2,4-Trimethylbenzene	13.2		"	10.7		123	67.9-152				
1,2,4-Trichlorobenzene	17.2		"	11.0		156	58-147	High Bias			
1,1-Dichloroethylene	10.1		"	9.80		103	58.1-130				
1,1-Dichloroethane	11.3		"	10.2		111	63.3-130				
Trichlorofluoromethane (Freon 11)	9.91		"	10.5		94.4	56-132				
1,1,2-Trichloroethane	13.0		"	10.7		121	66-127				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4		"	9.70		107	60.2-125				
1,1,2,2-Tetrachloroethane	14.3		"	10.8		132	63.7-132				
1,1,1-Trichloroethane	11.0		"	10.4		105	58.2-126				
Dichlorodifluoromethane	9.77		"	10.0		97.7	62.8-133				
1,2-Dibromoethane	12.5		"	10.6		118	70-130				
Dibromochloromethane	12.9		"	10.6		121	70-130				
Methyl Methacrylate	12.1		"	10.1		120	70-130				
Chlorobenzene	13.0		"	10.8		121	67.6-122				
Surrogate: <i>p</i> -Bromofluorobenzene	10.2		"	10.0		102	70-130				

**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); therefore, 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/>	
ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
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.

## 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 unless superseded by written contract.

York Project No. 1250066

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
MID-HUDSON GEOSCIENCES 1003 N.Y. ROUTE 44/55 P.O. BOX 332 CLINTONDALE, NY 12515-0332 Phone No. <u>845 883-5866</u> Contact Person: <u>Kathie Beinkafner</u> E-Mail Address: <u>rockdoc@roptonline.net</u>		Company: <u>American Cleaners</u> Address: <u>360 Rt. 211 East</u> City: <u>Middletown</u> State: <u>VT</u> Phone: <u>845 343-0111 x102</u> Attention: <u>Mr. Eric Hale</u> E-Mail Address: <u>Eric.Hale@gmail.com</u>		Company: <u>American Cleaners</u> Address: <u>360 Rt. 211 East</u> City: <u>Middletown</u> State: <u>VT</u> Phone: <u>845 343-0111 x102</u> Attention: <u>Mr. Eric Hale</u> E-Mail Address: <u>Eric.Hale@gmail.com</u>		<u>AMERICAN CLEANERS</u> <u>MIDDLETOWN</u> <u>VT</u> <u>PURCHASE ORDER NO.</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 <input checked="" type="checkbox"/> Standard (5-7 Days)		<input 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 checked="" type="checkbox"/> NJDEP Red. Deliv. <u>Electronic Data Deliverables (EDD)</u>	
Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Volatiles 8260 full 624 STARS list BTEX MTBE TCL list TAGM list TCLP list RCRA list 504.2 Halog. only NJDEP list SPLP & TCLP 8021B list		Semi-Vols. Per PCB list 8270 or 625 STARS list BN Only Acids Only PAH list TAGM list NJDEP list CT RCP list SPLP & TCLP TCLP list TCLP Herb Chlordane 608 Pest SPLP & TCLP 608 PCB		Metals RCRA8 PP13 list TAL CT15 list TAGM list NJDEP list Total Dissolved SPLP & TCLP Ind. Metals LIST Below		Misc. Org. TPH GRO TPH DRO CT ETPH NY 310-13 TPH 1664 Air TO14A Air STARS Air VPH Air TICs Methane Helium		Misc. Corrosivity Reactivity Ignitability Flash Point Sieve Anal. Micrographs TOX BTU/lb. Aquatic Tox. TOC Asbestos Silicon	
Choose Analyses Needed from the Menu Above and Enter Below											
Sample Identification	Date Sampled	Sample Matrix	Container Description(s)								
XP2-A	9/24/2012	Soil	2oz clear glass jar								
XP2-B	9/24/2012	Soil	2oz clear glass jar								
Trip Blank	9/24-27/12	distilled water	2 40ml clear glass vials								
Field Blank	9/24/2012	distilled water	2 40ml clear glass vials								
IES092712	9/27/2012	Summa Can. Air TO-15	Summa #23								
Preservation Check those Applicable Special Instructions Field Filled <input type="checkbox"/> Lab to Filter <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"/> NaOH <input type="checkbox"/> Other <input type="checkbox"/>			Samples Received By <u>Cherie</u> Date/Time <u>9-28-12 11:10</u> Samples Relinquished By <u>Katherine Beinkafner</u> Date/Time <u>9-28-12 15:25</u> Samples Relinquished By <u>Eric Hale</u> Date/Time <u>9-28-12 15:25</u>			Temperature on Receipt <u>4.0</u> °C		
Comments: <u>Item of Concern - Perc</u> <u>soil looks to have high concentrations.</u>											



## ANALYTICAL REPORT

Lab Number:	L1214558
Client:	American Cleaners 360 Route 211 East Middletown, NY 10940
ATTN:	Erez Halevah
Phone:	(845) 343-0111
Project Name:	AMER CLNRS
Project Number:	Not Specified
Report Date:	08/27/12

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

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

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508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** AMER CLNRS  
**Project Number:** Not Specified

**Lab Number:** L1214558  
**Report Date:** 08/27/12

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1214558-01	SG25	MIDDLETOWN	08/14/12 13:42
L1214558-02	SG12	MIDDLETOWN	08/14/12 13:56
L1214558-03	XP2	MIDDLETOWN	08/14/12 14:20

**Project Name:** AMER CLNRS  
**Project Number:** Not Specified

**Lab Number:** L1214558  
**Report Date:** 08/27/12

### Case Narrative

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

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

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

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

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

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



**Project Name:** AMER CLNRS  
**Project Number:** Not Specified

**Lab Number:** L1214558  
**Report Date:** 08/27/12

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on August 7th and 14, 2012. The canister certification results are provided as an addendum.

L1214558-01 and -02 results for Propylene and Acetone should be considered estimated due to co-elution with a non-target peak.

L1214558-03 and WG555658-5 Duplicate were re-analyzed on dilution in order to quantitate the samples within the calibration range. The results should be considered estimated, and are qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

L1214558-03 and WG555658-5 Duplicate have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

#### Helium

L1214558-01 through -03 and WG555811-3,-4,and -5.: Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Nitrogen resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 08/27/12

**AIR**

**Project Name:** AMER CLNRS**Project Number:** Not Specified**Lab Number:** L1214558**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-01  
 Client ID: SG25  
 Sample Location: MIDDLETOWN  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 08/18/12 21:25  
 Analyst: RY

Date Collected: 08/14/12 13:42  
 Date Received: 08/14/12  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	0.692	0.500	--	1.19	0.860	--		1
Dichlorodifluoromethane	0.261	0.200	--	1.29	0.989	--		1
Chloromethane	0.314	0.200	--	0.648	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.09	1.00	--	4.96	2.38	--		1
Trichlorofluoromethane	0.200	0.200	--	1.12	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.43	0.200	--	4.45	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	0.755	0.200	--	2.23	0.590	--		1
cis-1,2-Dichloroethene	1.56	0.200	--	6.18	0.793	--		1



**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-01  
 Client ID: SG25  
 Sample Location: MIDDLETOWN

Date Collected: 08/14/12 13:42  
 Date Received: 08/14/12  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	14.2	0.200	--	41.9	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.253	0.200	--	0.892	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.200	0.200	--	0.639	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.549	0.200	--	2.56	0.934	--		1
Heptane	0.739	0.200	--	3.03	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.258	0.200	--	1.06	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.10	0.200	--	4.14	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	5.20	0.200	--	35.3	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.577	0.200	--	2.51	0.869	--		1
p/m-Xylene	2.36	0.400	--	10.2	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1



**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-01  
 Client ID: SG25  
 Sample Location: MIDDLETOWN

Date Collected: 08/14/12 13:42  
 Date Received: 08/14/12  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.28	0.200	--	5.56	0.869	--		1
4-Ethyltoluene	0.440	0.200	--	2.16	0.983	--		1
1,3,5-Trimethybenzene	0.636	0.200	--	3.13	0.983	--		1
1,2,4-Trimethylbenzene	2.28	0.200	--	11.2	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.366	0.200	--	2.20	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	70		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	92		60-140



**Project Name:** AMER CLNRS**Project Number:** Not Specified**Lab Number:** L1214558**Report Date:** 08/27/12**SAMPLE RESULTS**

**Lab ID:** L1214558-02  
**Client ID:** SG12  
**Sample Location:** MIDDLETOWN  
**Matrix:** Soil\_Vapor  
**Anaytical Method:** 48,TO-15  
**Analytical Date:** 08/18/12 21:57  
**Analyst:** RY

**Date Collected:** 08/14/12 13:56  
**Date Received:** 08/14/12  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	3.34	0.500	--	5.75	0.860	--		1
Dichlorodifluoromethane	0.327	0.200	--	1.62	0.989	--		1
Chloromethane	0.453	0.200	--	0.935	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	3.81	2.50	--	7.18	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.92	1.00	--	16.4	2.38	--		1
Trichlorofluoromethane	0.250	0.200	--	1.40	1.12	--		1
Isopropanol	0.849	0.500	--	2.09	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.500	0.200	--	1.56	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	1.55	0.200	--	4.57	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1





**Project Name:** AMER CLNRS**Project Number:** Not Specified**Lab Number:** L1214558**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-02  
 Client ID: SG12  
 Sample Location: MIDDLETOWN

Date Collected: 08/14/12 13:56  
 Date Received: 08/14/12  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.212	0.200	--	1.04	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.325	0.200	--	1.14	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.259	0.200	--	0.827	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.577	0.200	--	2.70	0.934	--		1
Heptane	0.297	0.200	--	1.22	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	1.37	0.200	--	5.61	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.36	0.200	--	5.12	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	6.83	0.200	--	46.3	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.771	0.200	--	3.35	0.869	--		1
p/m-Xylene	3.00	0.400	--	13.0	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1



**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-02  
 Client ID: SG12  
 Sample Location: MIDDLETOWN

Date Collected: 08/14/12 13:56  
 Date Received: 08/14/12  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.60	0.200	--	6.95	0.869	--		1
4-Ethyltoluene	0.770	0.200	--	3.78	0.983	--		1
1,3,5-Trimethybenzene	1.02	0.200	--	5.01	0.983	--		1
1,2,4-Trimethylbenzene	4.31	0.200	--	21.2	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.514	0.200	--	3.09	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	71		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	96		60-140



**Project Name:** AMER CLNRS**Project Number:** Not Specified**Lab Number:** L1214558**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-03 D  
 Client ID: XP2  
 Sample Location: MIDDLETOWN  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 08/18/12 22:28  
 Analyst: RY

Date Collected: 08/14/12 14:20  
 Date Received: 08/14/12  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Propylene	ND	19.1	--	ND	32.9	--		38.17
Dichlorodifluoromethane	ND	7.63	--	ND	37.7	--		38.17
Chloromethane	ND	7.63	--	ND	15.8	--		38.17
Freon-114	ND	7.63	--	ND	53.3	--		38.17
Vinyl chloride	ND	7.63	--	ND	19.5	--		38.17
1,3-Butadiene	ND	7.63	--	ND	16.9	--		38.17
Bromomethane	ND	7.63	--	ND	29.6	--		38.17
Chloroethane	ND	7.63	--	ND	20.1	--		38.17
Ethanol	ND	95.4	--	ND	180	--		38.17
Vinyl bromide	ND	7.63	--	ND	33.4	--		38.17
Acetone	ND	38.2	--	ND	90.7	--		38.17
Trichlorofluoromethane	ND	7.63	--	ND	42.9	--		38.17
Isopropanol	ND	19.1	--	ND	46.9	--		38.17
1,1-Dichloroethene	ND	7.63	--	ND	30.2	--		38.17
Methylene chloride	ND	38.2	--	ND	133	--		38.17
3-Chloropropene	ND	7.63	--	ND	23.9	--		38.17
Carbon disulfide	ND	7.63	--	ND	23.8	--		38.17
Freon-113	ND	7.63	--	ND	58.5	--		38.17
trans-1,2-Dichloroethene	ND	7.63	--	ND	30.2	--		38.17
1,1-Dichloroethane	ND	7.63	--	ND	30.9	--		38.17
Methyl tert butyl ether	ND	7.63	--	ND	27.5	--		38.17
Vinyl acetate	ND	7.63	--	ND	26.9	--		38.17
2-Butanone	ND	7.63	--	ND	22.5	--		38.17
cis-1,2-Dichloroethene	208	7.63	--	825	30.2	--		38.17



**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-03 D

Date Collected: 08/14/12 14:20

Client ID: XP2

Date Received: 08/14/12

Sample Location: MIDDLETOWN

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	19.1	--	ND	68.8	--		38.17
Chloroform	27.9	7.63	--	136	37.3	--		38.17
Tetrahydrofuran	ND	7.63	--	ND	22.5	--		38.17
1,2-Dichloroethane	ND	7.63	--	ND	30.9	--		38.17
n-Hexane	ND	7.63	--	ND	26.9	--		38.17
1,1,1-Trichloroethane	ND	7.63	--	ND	41.6	--		38.17
Benzene	ND	7.63	--	ND	24.4	--		38.17
Carbon tetrachloride	ND	7.63	--	ND	48.0	--		38.17
Cyclohexane	ND	7.63	--	ND	26.3	--		38.17
1,2-Dichloropropane	ND	7.63	--	ND	35.3	--		38.17
Bromodichloromethane	ND	7.63	--	ND	51.1	--		38.17
1,4-Dioxane	ND	7.63	--	ND	27.5	--		38.17
Trichloroethene	116	7.63	--	623	41.0	--		38.17
2,2,4-Trimethylpentane	ND	7.63	--	ND	35.6	--		38.17
Heptane	ND	7.63	--	ND	31.3	--		38.17
cis-1,3-Dichloropropene	ND	7.63	--	ND	34.6	--		38.17
4-Methyl-2-pentanone	ND	7.63	--	ND	31.3	--		38.17
trans-1,3-Dichloropropene	ND	7.63	--	ND	34.6	--		38.17
1,1,2-Trichloroethane	ND	7.63	--	ND	41.6	--		38.17
Toluene	18.8	7.63	--	70.8	28.8	--		38.17
2-Hexanone	ND	7.63	--	ND	31.3	--		38.17
Dibromochloromethane	ND	7.63	--	ND	65.0	--		38.17
1,2-Dibromoethane	ND	7.63	--	ND	58.6	--		38.17
Tetrachloroethene	4010	7.63	--	27200	51.7	--	E	38.17
Chlorobenzene	ND	7.63	--	ND	35.1	--		38.17
Ethylbenzene	ND	7.63	--	ND	33.1	--		38.17
p/m-Xylene	26.8	15.3	--	116	66.4	--		38.17
Bromoform	ND	7.63	--	ND	78.9	--		38.17



**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-03 D

Date Collected: 08/14/12 14:20

Client ID: XP2

Date Received: 08/14/12

Sample Location: MIDDLETOWN

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	7.63	--	ND	32.5	--		38.17
1,1,2,2-Tetrachloroethane	ND	7.63	--	ND	52.4	--		38.17
o-Xylene	11.9	7.63	--	51.7	33.1	--		38.17
4-Ethyltoluene	ND	7.63	--	ND	37.5	--		38.17
1,3,5-Trimethybenzene	ND	7.63	--	ND	37.5	--		38.17
1,2,4-Trimethylbenzene	21.0	7.63	--	103	37.5	--		38.17
Benzyl chloride	ND	7.63	--	ND	39.5	--		38.17
1,3-Dichlorobenzene	ND	7.63	--	ND	45.9	--		38.17
1,4-Dichlorobenzene	ND	7.63	--	ND	45.9	--		38.17
1,2-Dichlorobenzene	8.63	7.63	--	51.9	45.9	--		38.17
1,2,4-Trichlorobenzene	ND	7.63	--	ND	56.6	--		38.17
Hexachlorobutadiene	ND	7.63	--	ND	81.4	--		38.17

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	100		60-140



**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-03 D2

Date Collected: 08/14/12 14:20

Client ID: XP2

Date Received: 08/14/12

Sample Location: MIDDLETOWN

Field Prep: Not Specified

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 08/19/12 08:48

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	3890	15.3	--	26400	104	--		76.35

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	93		60-140



Project Name: AMER CLNRS

Lab Number: L1214558

Project Number: Not Specified

Report Date: 08/27/12

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/18/12 17:17

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG555658-4								
Propylene	ND	0.500	--	ND	0.860	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1



Project Name: AMER CLNRS

Lab Number: L1214558

Project Number: Not Specified

Report Date: 08/27/12

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/18/12 17:17

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG555658-4								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: AMER CLNRS

Lab Number: L1214558

Project Number: Not Specified

Report Date: 08/27/12

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/18/12 17:17

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG555658-4								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: AMER CLNRS

Project Number: Not Specified

Lab Number: L1214558

Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG555658-3								
Chlorodifluoromethane	79		-		70-130	-		
Propylene	86		-		70-130	-		
Dichlorodifluoromethane	70		-		70-130	-		
Chloromethane	88		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	90		-		70-130	-		
Methanol	73		-		70-130	-		
Vinyl chloride	89		-		70-130	-		
1,3-Butadiene	92		-		70-130	-		
Butane	81		-		70-130	-		
Bromomethane	88		-		70-130	-		
Chloroethane	87		-		70-130	-		
Ethyl Alcohol	79		-		70-130	-		
Dichlorofluoromethane	82		-		70-130	-		
Vinyl bromide	85		-		70-130	-		
Acrolein	80		-		70-130	-		
Acetone	85		-		70-130	-		
Acetonitrile	78		-		70-130	-		
Trichlorofluoromethane	93		-		70-130	-		
iso-Propyl Alcohol	92		-		70-130	-		
Acrylonitrile	82		-		70-130	-		
Pentane	80		-		70-130	-		

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: AMER CLNRS

Project Number: Not Specified

Lab Number: L1214558

Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG555658-3								
Ethyl ether	76		-		70-130	-		
1,1-Dichloroethene	90		-		70-130	-		
tert-Butyl Alcohol	82		-		70-130	-		
Methylene chloride	88		-		70-130	-		
3-Chloropropene	90		-		70-130	-		
Carbon disulfide	81		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	91		-		70-130	-		
trans-1,2-Dichloroethene	83		-		70-130	-		
1,1-Dichloroethane	86		-		70-130	-		
Methyl tert butyl ether	83		-		70-130	-		
Vinyl acetate	89		-		70-130	-		
2-Butanone	86		-		70-130	-		
cis-1,2-Dichloroethene	101		-		70-130	-		
Ethyl Acetate	88		-		70-130	-		
Chloroform	93		-		70-130	-		
Tetrahydrofuran	76		-		70-130	-		
2,2-Dichloropropane	80		-		70-130	-		
1,2-Dichloroethane	86		-		70-130	-		
n-Hexane	100		-		70-130	-		
Isopropyl Ether	91		-		70-130	-		
Ethyl-Tert-Butyl-Ether	87		-		70-130	-		

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: AMER CLNRS

Project Number: Not Specified

Lab Number: L1214558

Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG555658-3								
1,1,1-Trichloroethane	100		-		70-130	-		
1,1-Dichloropropene	91		-		70-130	-		
Benzene	90		-		70-130	-		
Carbon tetrachloride	96		-		70-130	-		
Cyclohexane	94		-		70-130	-		
Tertiary-Amyl Methyl Ether	83		-		70-130	-		
Dibromomethane	90		-		70-130	-		
1,2-Dichloropropane	100		-		70-130	-		
Bromodichloromethane	94		-		70-130	-		
1,4-Dioxane	90		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	98		-		70-130	-		
Methyl methacrylate	118		-		70-130	-		
Heptane	93		-		70-130	-		
cis-1,3-Dichloropropene	98		-		70-130	-		
4-Methyl-2-pentanone	92		-		70-130	-		
trans-1,3-Dichloropropene	85		-		70-130	-		
1,1,2-Trichloroethane	99		-		70-130	-		
Toluene	92		-		70-130	-		
1,3-Dichloropropane	88		-		70-130	-		
2-Hexanone	104		-		70-130	-		



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

Project Name: AMER CLNRS

Project Number: Not Specified

Lab Number: L1214558

Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG555658-3								
Dibromochloromethane	93		-		70-130	-		
1,2-Dibromoethane	98		-		70-130	-		
Butyl Acetate	86		-		70-130	-		
Octane	87		-		70-130	-		
Tetrachloroethene	99		-		70-130	-		
1,1,1,2-Tetrachloroethane	92		-		70-130	-		
Chlorobenzene	97		-		70-130	-		
Ethylbenzene	95		-		70-130	-		
p/m-Xylene	96		-		70-130	-		
Bromoform	90		-		70-130	-		
Styrene	91		-		70-130	-		
1,1,2,2-Tetrachloroethane	103		-		70-130	-		
o-Xylene	100		-		70-130	-		
1,2,3-Trichloropropane	90		-		70-130	-		
Nonane (C9)	92		-		70-130	-		
Isopropylbenzene	94		-		70-130	-		
Bromobenzene	89		-		70-130	-		
o-Chlorotoluene	92		-		70-130	-		
n-Propylbenzene	93		-		70-130	-		
p-Chlorotoluene	91		-		70-130	-		
4-Ethyltoluene	89		-		70-130	-		

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: AMER CLNRS

Project Number: Not Specified

Lab Number: L1214558

Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG555658-3								
1,3,5-Trimethylbenzene	96		-		70-130	-		
tert-Butylbenzene	97		-		70-130	-		
1,2,4-Trimethylbenzene	104		-		70-130	-		
Decane (C10)	96		-		70-130	-		
Benzyl chloride	88		-		70-130	-		
1,3-Dichlorobenzene	105		-		70-130	-		
1,4-Dichlorobenzene	106		-		70-130	-		
sec-Butylbenzene	97		-		70-130	-		
p-Isopropyltoluene	93		-		70-130	-		
1,2-Dichlorobenzene	105		-		70-130	-		
n-Butylbenzene	102		-		70-130	-		
1,2-Dibromo-3-chloropropane	101		-		70-130	-		
Undecane	106		-		70-130	-		
Dodecane (C12)	121		-		70-130	-		
1,2,4-Trichlorobenzene	115		-		70-130	-		
Naphthalene	106		-		70-130	-		
1,2,3-Trichlorobenzene	108		-		70-130	-		
Hexachlorobutadiene	106		-		70-130	-		

# Lab Duplicate Analysis

## Batch Quality Control

Project Name: AMER CLNRS

Project Number: Not Specified

Lab Number: L1214558

Report Date: 08/27/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG555658-5 QC Sample: L1214558-03 Client ID: XP2						
Propylene	ND	ND	ppbV	NC		25
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	ND	ND	ppbV	NC		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	ND	ND	ppbV	NC		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
Isopropanol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

# Lab Duplicate Analysis

## Batch Quality Control

Project Name: AMER CLNRS

Project Number: Not Specified

Lab Number: L1214558

Report Date: 08/27/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG555658-5 QC Sample: L1214558-03 Client ID: XP2					
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
Vinyl acetate	ND	ND	ppbV	NC	25
2-Butanone	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	208	207	ppbV	0	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	27.9	27.3	ppbV	2	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Benzene	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
Trichloroethene	116	116	ppbV	0	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25

# Lab Duplicate Analysis

## Batch Quality Control

Project Name: AMER CLNRS

Project Number: Not Specified

Lab Number: L1214558

Report Date: 08/27/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG555658-5 QC Sample: L1214558-03 Client ID: XP2					
Heptane	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	18.8	18.3	ppbV	3	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	4010E	4010E	ppbV	0	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	26.8	26.0	ppbV	3	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	11.9	10.9	ppbV	9	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25

# Lab Duplicate Analysis

## Batch Quality Control

Project Name: AMER CLNRS

Project Number: Not Specified

Lab Number: L1214558

Report Date: 08/27/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG555658-5 QC Sample: L1214558-03 Client ID: XP2					
1,2,4-Trimethylbenzene	21.0	20.2	ppbV	4	25
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	8.63	8.44	ppbV	2	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG555658-5 QC Sample: L1214558-03 Client ID: XP2					
Tetrachloroethene	3890	3940	ppbV	1	25



**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-01 D  
Client ID: SG25  
Sample Location: MIDDLETOWN  
Matrix: Soil\_Vapor  
Analytical Method: 51,3C  
Analytical Date: 08/20/12 13:28  
Analyst: MB

Date Collected: 08/14/12 13:42  
Date Received: 08/14/12  
Field Prep: Not Specified  
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Helium	13.1		%	0.018	--	1.811

**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-02 D  
Client ID: SG12  
Sample Location: MIDDLETOWN  
Matrix: Soil\_Vapor  
Analytical Method: 51,3C  
Analytical Date: 08/20/12 14:03  
Analyst: MB

Date Collected: 08/14/12 13:56  
Date Received: 08/14/12  
Field Prep: Not Specified  
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Helium	0.914		%	0.015	--	1.534

**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**SAMPLE RESULTS**

Lab ID: L1214558-03 D  
Client ID: XP2  
Sample Location: MIDDLETOWN  
Matrix: Soil\_Vapor  
Analytical Method: 51,3C  
Analytical Date: 08/20/12 14:38  
Analyst: MB

Date Collected: 08/14/12 14:20  
Date Received: 08/14/12  
Field Prep: Not Specified  
Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Fixed Gases by GC - Mansfield Lab						
Helium	1.54		%	0.019	--	1.905

**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 51,3C

Analytical Date: 08/20/12 13:08

Analyst: MB

Parameter	Result	Qualifier	Units	RL	MDL
Fixed Gases by GC - Mansfield Lab for sample(s): 01-03 Batch: WG555811-2					
Helium	ND		%	0.010	--

**Lab Control Sample Analysis**  
Batch Quality Control**Project Name:** AMER CLNRS**Project Number:** Not Specified**Lab Number:** L1214558**Report Date:** 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-03 Batch: WG555811-1								
Helium	100		-		80-120	-		

# Lab Duplicate Analysis

## Batch Quality Control

Project Name: AMER CLNRS

Project Number: Not Specified

Lab Number: L1214558

Report Date: 08/27/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG555811-3 QC Sample: L1214558-01 Client ID: SG25						
Helium	13.1	13.1	%	0		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG555811-4 QC Sample: L1214558-02 Client ID: SG12						
Helium	0.914	0.913	%	0		5
Fixed Gases by GC - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG555811-5 QC Sample: L1214558-03 Client ID: XP2						
Helium	1.54	1.54	%	0		5

**Project Name:** AMER CLNRS

Serial\_No:08271209:39  
**Lab Number:** L1214558

**Project Number:**

**Report Date:** 08/27/12

**Canister and Flow Controller Information**

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1214558-01	SG25	0052	#90 AMB	08/14/12	80369		-	-	-	Pass	77	81	5
L1214558-01	SG25	765	6.0L Can	08/07/12	80199	L1213215-04	Pass	-29.4	-5.7	-	-	-	-
L1214558-02	SG12	0137	#90 AMB	08/14/12	80369		-	-	-	Pass	80	95	17
L1214558-02	SG12	1787	6.0L Can	08/07/12	80199	L1213215-04	Pass	-29.3	-1.4	-	-	-	-
L1214558-03	XP2	0200	#90 SV	08/14/12	80369		-	-	-	Pass	79	79	0
L1214558-03	XP2	624	6.0L Can	08/14/12	80369	L1213215-04	Pass	-29.1	-8.0	-	-	-	-



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1213215  
**Report Date:** 08/27/12

### Air Canister Certification Results

**Lab ID:** L1213215-04  
**Client ID:** CAN 1687 SHELF 52  
**Sample Location:**  
**Matrix:** Air  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 07/25/12 20:24  
**Analyst:** MB

**Date Collected:** 07/23/12 16:50  
**Date Received:** 07/25/12  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1213215  
**Report Date:** 08/27/12

### Air Canister Certification Results

**Lab ID:** L1213215-04  
**Client ID:** CAN 1687 SHELF 52  
**Sample Location:**

**Date Collected:** 07/23/12 16:50  
**Date Received:** 07/25/12  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1213215  
**Report Date:** 08/27/12

### Air Canister Certification Results

Lab ID: L1213215-04  
 Client ID: CAN 1687 SHELF 52  
 Sample Location:

Date Collected: 07/23/12 16:50  
 Date Received: 07/25/12  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1213215  
**Report Date:** 08/27/12

### Air Canister Certification Results

Lab ID: L1213215-04  
 Client ID: CAN 1687 SHELF 52  
 Sample Location:

Date Collected: 07/23/12 16:50  
 Date Received: 07/25/12  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Unknown	2.21		ppbV		1



**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1213215**Project Number:** CANISTER QC BAT**Report Date:** 08/27/12**Air Canister Certification Results**

Lab ID: L1213215-04

Date Collected: 07/23/12 16:50

Client ID: CAN 1687 SHELF 52

Date Received: 07/25/12

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	93		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1213215  
**Report Date:** 08/27/12

### Air Canister Certification Results

Lab ID: L1213215-04  
 Client ID: CAN 1687 SHELF 52  
 Sample Location:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 07/26/12 19:26  
 Analyst: MB

Date Collected: 07/23/12 16:50  
 Date Received: 07/25/12  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1213215  
**Report Date:** 08/27/12

### Air Canister Certification Results

**Lab ID:** L1213215-04  
**Client ID:** CAN 1687 SHELF 52  
**Sample Location:**

**Date Collected:** 07/23/12 16:50  
**Date Received:** 07/25/12  
**Field Prep:** Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1





**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1213215**Project Number:** CANISTER QC BAT**Report Date:** 08/27/12**Air Canister Certification Results**

Lab ID: L1213215-04

Date Collected: 07/23/12 16:50

Client ID: CAN 1687 SHELF 52

Date Received: 07/25/12

Sample Location:

Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	91		60-140

# **AIR Petro Can Certification**

**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1213215**Project Number:** CANISTER QC BAT**Report Date:** 08/27/12**AIR CAN CERTIFICATION RESULTS**

**Lab ID:** L1213215-04  
**Client ID:** CAN 1687 SHELF 52  
**Sample Location:** Not Specified  
**Matrix:** Air  
**Analytical Method:** 96,APH  
**Analytical Date:** 07/26/12 19:26  
**Analyst:** MB

**Date Collected:** 07/23/12 16:50  
**Date Received:** 07/25/12  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbons in Air - Mansfield Lab</b>						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Reagent H2O Preserved Vials Frozen on:** NA**Cooler Information Custody Seal****Cooler**

N/A Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Analysis(*)</b>
L1214558-01A	Canister - 6 Liter	N/A	N/A		Y	Absent	FIXGAS(30),TO15-LL(30)
L1214558-02A	Canister - 6 Liter	N/A	N/A		Y	Absent	FIXGAS(30),TO15-LL(30)
L1214558-03A	Canister - 6 Liter	N/A	N/A		Y	Absent	FIXGAS(30),TO15-LL(30)

\*Values in parentheses indicate holding time in days

**Project Name:** AMER CLNRS  
**Project Number:** Not Specified

**Lab Number:** L1214558  
**Report Date:** 08/27/12

## GLOSSARY

### Acronyms

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

### Footnotes

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

### Terms

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

### Data Qualifiers

- |           |   |
|-----------|---|
| <b>A</b>  | - Spectra identified as "Aldol Condensation Product".   |
| <b>B</b>  | - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. |
| <b>C</b>  | - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.  |
| <b>D</b>  | - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.   |
| <b>E</b>  | - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.  |
| <b>G</b>  | - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.  |
| <b>H</b>  | - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.  |
| <b>I</b>  | - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.  |
| <b>M</b>  | - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.  |
| <b>NJ</b> | - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.  |

**Report Format:** Data Usability Report



**Project Name:** AMER CLNRS**Lab Number:** L1214558**Project Number:** Not Specified**Report Date:** 08/27/12**Data Qualifiers**

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

**Project Name:** AMER CLNRS  
**Project Number:** Not Specified

**Lab Number:** L1214558  
**Report Date:** 08/27/12

## REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.
- 51 Determination of Carbon Dioxide, Methane, Nitrogen and Oxygen from Stationary Sources. Method 3C. Appendix A, Part 60, 40 CFR (Code of Federal Regulations). June 20, 1996.

## LIMITATION OF LIABILITIES

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

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





## Certificate/Approval Program Summary

Last revised August 3, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### **Connecticut Department of Public Health Certificate/Lab ID: PH-0141.**

*Wastewater/Non-Potable Water* (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable). Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

*Solid Waste/Soil* (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc, Total Organic Carbon, Corrosivity, TCLP 1311, SPLP 1312. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

### **Florida Department of Health Certificate/Lab ID: E87814. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

*Solid & Chemical Materials* (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

*Air & Emissions* (EPA TO-15.)

### **Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020A, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

*Solid & Chemical Materials* (Inorganic Parameters: EPA 1311, 3050B, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

*Biological Tissue* (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

*Air & Emissions* (EPA TO-15.)

### **New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: EPA 180.1, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B, 3020A, . Organic Parameters: EPA 3510C, 3630C, 3640A, 3660B, 8081B, 8082A, 8270C, 8270D, 8015D.)

*Solid & Chemical Materials* (Inorganic Parameters: SW-846 1311, 3050B, 3051A, 6020A, 7471B, 9040B, 9045C. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8015D, 8082A, 8081B.)

### **New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. *NELAP Accredited.***

*Non-Potable Water* (Inorganic Parameters: SW-846 1312, 3020A, SM2320B, SM2540D, 2540G, 4500H-B, EPA 180.1, 1631E, SW-846 7470A, 9040C, 6020A, 9050A. Organic Parameters: SW-846 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D)

*Solid & Chemical Materials* (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 6020A, 7471B, 7474, 9040B, 9040C, 9045C, 9045D, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8081B, 8082A, 8270C, 8270D, 8015D.)

*Atmospheric Organic Parameters* (EPA 3C, TO-15, TO-10A, TO-13A-SIM.)

*Biological Tissue* (Inorganic Parameters: SW-846 6020A. Organic Parameters: SW-846 8270C, 8270D, 3510C, 3570, 3610C, 3630C, 3640A)

**New York Department of Health** Certificate/Lab ID: 11627. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: SM2320B, SM2540D, 6020A, 1631E, 7470A, 9050A, EPA 180.1, 3020A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 3510C.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 6020A, 7471B, 7474, 9040C, 9045D. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 1311, 3050B, 3580A, 3570, 3051A.)

*Air & Emissions* (EPA TO-15, TO-10A.)

**Pennsylvania** Certificate/Lab ID: 68-02089 **NELAP Accredited**

*Non-Potable Water* (Inorganic Parameters: 1312, 1631E, 180.1, 3020A, 6020A, 7470A, 9040B, 9050A, 2320B, 2540D, 2540G, SM4500H+-B. Organic Parameters: 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 3051A, 6020A, 7471B, 7474 9040B, 9045C, 9060. Organic Parameters: EPA3050B, 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8270D, 8081B, 8015D, 8082A.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00299. **NELAP Accredited via NJ-DEP.**

Refer to NJ-DEP Certificate for Non-Potable Water.

**Texas Commission of Environmental Quality** Certificate/Lab ID: T104704419-08-TX. **NELAP Accredited.**

*Solid & Chemical Materials* (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8081, 8082.)

*Air* (Organic Parameters: EPA TO-15)

**Virginia Division of Consolidated Laboratory Services** Certificate/Lab ID:460194. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters:EPA 3020A, 6020A, 245.7, 9040B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B, 8015D.)

*Solid & Chemical Materials* (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051, 9060. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

**Washington State Department of Ecology** Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

*Solid & Chemical Materials* (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015, 8270.)

**U.S. Army Corps of Engineers**

**Department of Defense, L-A-B** Certificate/Lab ID: L2217.01.

*Non-Potable Water* (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH, 8082A, 8081B, 8015D-SHC, 8015D.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH 8082A, 8081B, 8015D-SHC, 8015D.)

*Air & Emissions* (EPA TO-15.)

**Analytes Not Accredited by NELAP**

Certification is not available by NELAP for the following analytes: **8270C**: Biphenyl. **TO-15**: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.



# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 07/27/2012  
**Client Project ID: AC Middletown Re-eval GW**  
York Project (SDG) No.: 12G0446

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 07/27/2012  
Client Project ID: AC Middletown Re-eval GW  
York Project (SDG) No.: 12G0446

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

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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 13, 2012 and listed below. The project was identified as your project: **AC Middletown Re-eval GW**.

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>
12G0446-01	T7	Water	07/11/2012	07/13/2012
12G0446-02	MW28	Water	07/11/2012	07/13/2012
12G0446-03	T5	Water	07/11/2012	07/13/2012
12G0446-04	MW26	Water	07/11/2012	07/13/2012
12G0446-05	MW25	Water	07/11/2012	07/13/2012
12G0446-06	Trip Blank	Water	07/11/2012	07/13/2012
12G0446-07	Equip Blank	Water	07/11/2012	07/13/2012

## **General Notes for York Project (SDG) No.: 12G0446**

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:** 07/27/2012

Robert Q. Bradley  
Executive Vice President / Laboratory Director

**YORK**



### Sample Information

**Client Sample ID:** T7

**York Sample ID:** 12G0446-01

York Project (SDG) No.

12G0446

Client Project ID

AC Middletown Re-eval GW

Matrix

Water

Collection Date/Time

July 11, 2012 6:15 pm

Date Received

07/13/2012

### Volatile Organics, 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS

### Sample Information

**Client Sample ID:** T7

**York Sample ID:** 12G0446-01

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 6:15 pm

Date Received  
07/13/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
156-59-2	cis-1,2-Dichloroethylene	4.0	J	ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:15	SS
Surrogate Recoveries		Result	Acceptance Range								

### Sample Information

**Client Sample ID:** T7

**York Sample ID:** 12G0446-01

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 6:15 pm

Date Received  
07/13/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %			72.6-129						
460-00-4	Surrogate: p-Bromofluorobenzene	102 %			63.5-145						
2037-26-5	Surrogate: Toluene-d8	99.4 %			81.2-127						

### Sample Information

**Client Sample ID:** MW28

**York Sample ID:** 12G0446-02

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 11:45 am

Date Received  
07/13/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS

### Sample Information

**Client Sample ID:** MW28

**York Sample ID:** 12G0446-02

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 11:45 am

Date Received  
07/13/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
156-59-2	cis-1,2-Dichloroethylene	32		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS

### Sample Information

<b><u>Client Sample ID:</u></b> MW28			<b><u>York Sample ID:</u></b> 12G0446-02	
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12G0446	AC Middletown Re-eval GW	Water	July 11, 2012 11:45 am	07/13/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	250		ug/L	2.0	25	5	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:44	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
79-01-6	Trichloroethylene	25		ug/L	0.16	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 01:52	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	99.6 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	100 %	81.2-127								

### Sample Information

<b><u>Client Sample ID:</u></b> T5			<b><u>York Sample ID:</u></b> 12G0446-03	
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12G0446	AC Middletown Re-eval GW	Water	July 11, 2012  7:20 pm	07/13/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS

### Sample Information

**Client Sample ID:** T5

**York Sample ID:** 12G0446-03

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 7:20 pm

Date Received  
07/13/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
156-59-2	cis-1,2-Dichloroethylene	43		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS

### Sample Information

<b>Client Sample ID:</b> T5					<b>York Sample ID:</b> 12G0446-03
<u>York Project (SDG) No.</u> 12G0446	<u>Client Project ID</u> AC Middletown Re-eval GW	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 11, 2012 7:20 pm	<u>Date Received</u> 07/13/2012	

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
127-18-4	Tetrachloroethylene	320		ug/L	2.0	25	5	EPA 8260B/624	07/17/2012 15:58	07/19/2012 02:22	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
79-01-6	Trichloroethylene	14		ug/L	0.16	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 02:30	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	98.1 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	99.8 %	81.2-127								

### Sample Information

<b>Client Sample ID:</b> MW26					<b>York Sample ID:</b> 12G0446-04
<u>York Project (SDG) No.</u> 12G0446	<u>Client Project ID</u> AC Middletown Re-eval GW	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 11, 2012 3:10 pm	<u>Date Received</u> 07/13/2012	

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS



## Sample Information

**Client Sample ID:** MW26

**York Sample ID:** 12G0446-04

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 3:10 pm

Date Received  
07/13/2012

### Volatile Organics, 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS

### Sample Information

**Client Sample ID:** MW26

**York Sample ID:** 12G0446-04

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 3:10 pm

Date Received  
07/13/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
156-59-2	cis-1,2-Dichloroethylene	<b>64</b>		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
127-18-4	Tetrachloroethylene	<b>2200</b>		ug/L	10	120	25	EPA 8260B/624	07/17/2012 15:58	07/19/2012 03:00	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
156-60-5	trans-1,2-Dichloroethylene	<b>0.83</b>	J	ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
79-01-6	Trichloroethylene	<b>58</b>		ug/L	0.16	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
75-01-4	Vinyl Chloride	<b>3.2</b>	J	ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:07	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	99.0 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	99.6 %	81.2-127								

### Sample Information

**Client Sample ID:** MW25

**York Sample ID:** 12G0446-05

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 4:53 pm

Date Received  
07/13/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS

### Sample Information

**Client Sample ID:** MW25

**York Sample ID:** 12G0446-05

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 4:53 pm

Date Received  
07/13/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
67-66-3	Chloroform	1.3	J	ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
156-59-2	cis-1,2-Dichloroethylene	15		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
127-18-4	Tetrachloroethylene	1300		ug/L	4.1	50	10	EPA 8260B/624	07/17/2012 15:58	07/19/2012 03:37	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
79-01-6	Trichloroethylene	17		ug/L	0.16	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 03:45	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.1 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	102 %	63.5-145								

### Sample Information

<b><u>Client Sample ID:</u></b> MW25			<b><u>York Sample ID:</u></b> 12G0446-05	
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12G0446	AC Middletown Re-eval GW	Water	July 11, 2012 4:53 pm	07/13/2012

#### **Volatile Organics, 8260 List**

#### **Log-in Notes:**

#### **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: Toluene-d8	99.3 %			81.2-127						

### Sample Information

<u>Client Sample ID:</u> Trip Blank			<u>York Sample ID:</u>	12G0446-06
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12G0446	AC Middletown Re-eval GW	Water	July 11, 2012 12:00 am	07/13/2012

#### **Volatile Organics, 8260 List**

#### **Log-in Notes:**

#### **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12G0446-06

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 12:00 am

Date Received  
07/13/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12G0446-06

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 12:00 am

Date Received  
07/13/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	07/17/2012 15:58	07/19/2012 01:06	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	99.1 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	98.4 %	81.2-127								

### Sample Information

**Client Sample ID:** Equip Blank

**York Sample ID:** 12G0446-07

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 12:00 am

Date Received  
07/13/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS



### Sample Information

**Client Sample ID:** Equip Blank

**York Sample ID:** 12G0446-07

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 12:00 am

Date Received  
07/13/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
67-64-1	Acetone	17		ug/L	6.1	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS

### Sample Information

**Client Sample ID:** Equip Blank

**York Sample ID:** 12G0446-07

York Project (SDG) No.  
12G0446

Client Project ID  
AC Middletown Re-eval GW

Matrix  
Water

Collection Date/Time  
July 11, 2012 12:00 am

Date Received  
07/13/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	07/17/2012 15:58	07/18/2012 05:00	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	100 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	99.9 %	81.2-127								

## Analytical Batch Summary

**Batch ID:** BG20744

**Preparation Method:** EPA 5030B

**Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
12G0446-01	T7	07/17/12
12G0446-07	Equip Blank	07/17/12
BG20744-BLK1	Blank	07/17/12
BG20744-BS1	LCS	07/17/12
BG20744-BSD1	LCS Dup	07/17/12

**Batch ID:** BG20786

**Preparation Method:** EPA 5030B

**Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
12G0446-02	MW28	07/17/12
12G0446-03	T5	07/17/12
12G0446-04	MW26	07/17/12
12G0446-05	MW25	07/17/12
12G0446-06	Trip Blank	07/17/12
BG20786-BLK1	Blank	07/18/12
BG20786-BS1	LCS	07/18/12
BG20786-BSD1	LCS Dup	07/18/12
BG20786-MS1	Matrix Spike	07/18/12
BG20786-MSD1	Matrix Spike Dup	07/18/12

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG20744 - EPA 5030B**

**Blank (BG20744-BLK1)**

Prepared: 07/17/2012 Analyzed: 07/18/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	50	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	10	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylene chloride	2.4	10	"
Naphthalene	ND	10	"
n-Butylbenzene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
o-Xylene	ND	5.0	"
p- & m- Xylenes	ND	10	"
p-Isopropyltoluene	ND	5.0	"

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG20744 - EPA 5030B**

**Blank (BG20744-BLK1)**

Prepared: 07/17/2012 Analyzed: 07/18/2012

sec-Butylbenzene	ND	5.0	ug/L								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>52.0</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.5</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>81.2-127</i>				

**LCS (BG20744-BS1)**

Prepared & Analyzed: 07/17/2012

1,1,1,2-Tetrachloroethane	53		ug/L	50.0		107	82.3-130				
1,1,1-Trichloroethane	50		"	50.0		99.4	75.6-137				
1,1,2,2-Tetrachloroethane	51		"	50.0		101	71.3-131				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47		"	50.0		93.3	71.1-129				
1,1,2-Trichloroethane	49		"	50.0		98.8	74.5-129				
1,1-Dichloroethane	52		"	50.0		105	79.6-132				
1,1-Dichloroethylene	50		"	50.0		100	80.2-146				
1,1-Dichloropropylene	49		"	50.0		98.8	75-136				
1,2,3-Trichlorobenzene	55		"	50.0		109	66.1-136				
1,2,3-Trichloropropane	49		"	50.0		97.0	63-131				
1,2,4-Trichlorobenzene	50		"	50.0		101	70.6-136				
1,2,4-Trimethylbenzene	50		"	50.0		99.0	75.3-135				
1,2-Dibromo-3-chloropropane	52		"	50.0		105	58.9-140				
1,2-Dibromoethane	51		"	50.0		102	79-130				
1,2-Dichlorobenzene	49		"	50.0		97.0	76.1-122				
1,2-Dichloroethane	51		"	50.0		102	74.6-132				
1,2-Dichloropropane	51		"	50.0		102	76.9-129				
1,3,5-Trimethylbenzene	48		"	50.0		95.2	70.6-127				
1,3-Dichlorobenzene	48		"	50.0		95.3	77-124				
1,3-Dichloropropane	52		"	50.0		104	75.8-126				
1,4-Dichlorobenzene	49		"	50.0		98.0	76.6-125				
1,4-Dioxane	66		"	2000		3.29	70-130	Low Bias			
2,2-Dichloropropane	48		"	50.0		96.0	69-133				
2-Butanone	51		"	50.0		102	70-130				
2-Chlorotoluene	47		"	50.0		93.3	66.3-119				
4-Chlorotoluene	48		"	50.0		95.5	69.2-127				
Acetone	46		"	50.0		92.6	70-130				
Benzene	50		"	50.0		99.6	76.2-129				
Bromobenzene	48		"	50.0		95.5	71.3-123				
Bromochloromethane	51		"	50.0		102	70.8-137				
Bromodichloromethane	52		"	50.0		105	79.7-134				
Bromoform	53		"	50.0		106	70.5-141				
Bromomethane	57		"	50.0		115	43.9-147				
Carbon tetrachloride	51		"	50.0		102	78.1-138				
Chlorobenzene	50		"	50.0		100	80.4-125				
Chloroethane	47		"	50.0		94.5	55.8-140				
Chloroform	51		"	50.0		103	76.6-133				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG20744 - EPA 5030B**

**LCS (BG20744-BS1)**

Prepared & Analyzed: 07/17/2012

Chloromethane	42		ug/L	50.0		84.4	48.8-115				
cis-1,2-Dichloroethylene	50		"	50.0		100	75.1-128				
cis-1,3-Dichloropropylene	52		"	50.0		104	74.5-128				
Dibromochloromethane	53		"	50.0		105	79.8-134				
Dibromomethane	50		"	50.0		99.6	79-130				
Dichlorodifluoromethane	36		"	50.0		71.7	47.1-101				
Ethyl Benzene	50		"	50.0		101	80.8-128				
Hexachlorobutadiene	46		"	50.0		91.3	64.8-128				
Isopropylbenzene	52		"	50.0		103	75.5-135				
Methyl tert-butyl ether (MTBE)	55		"	50.0		110	65.1-140				
Methylene chloride	49		"	50.0		98.2	61.3-120				
Naphthalene	51		"	50.0		102	62.3-148				
n-Butylbenzene	46		"	50.0		92.7	67.2-123				
n-Propylbenzene	47		"	50.0		94.6	70.5-127				
o-Xylene	48		"	50.0		96.1	75.9-122				
p- & m- Xylenes	98		"	100		98.1	77.7-127				
p-Isopropyltoluene	49		"	50.0		98.0	75.6-129				
sec-Butylbenzene	47		"	50.0		94.0	71.5-125				
Styrene	50		"	50.0		100	77.8-123				
tert-Butylbenzene	52		"	50.0		105	75.9-151				
Tetrachloroethylene	51		"	50.0		102	63.6-167				
Toluene	50		"	50.0		99.7	77-123				
trans-1,2-Dichloroethylene	51		"	50.0		102	76.3-139				
trans-1,3-Dichloropropylene	52		"	50.0		103	72.5-137				
Trichloroethylene	49		"	50.0		97.4	77.9-130				
Trichlorofluoromethane	47		"	50.0		93.4	57.4-133				
Vinyl Chloride	45		"	50.0		89.2	54.9-124				
Vinyl acetate	34		"	50.0		69.0	70-130	Low Bias			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.3</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.7</i>		<i>"</i>	<i>50.0</i>		<i>99.4</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.1</i>		<i>"</i>	<i>50.0</i>		<i>98.3</i>	<i>81.2-127</i>				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BG20744 - EPA 5030B</b>											
<b>LCS Dup (BG20744-BSD1)</b>						Prepared: 07/17/2012 Analyzed: 07/18/2012					
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		106	82.3-130		0.339	21.1	
1,1,1-Trichloroethane	50		"	50.0		101	75.6-137		1.44	19.7	
1,1,2,2-Tetrachloroethane	48		"	50.0		96.8	71.3-131		4.36	20.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47		"	50.0		93.3	71.1-129		0.0214	21.7	
1,1,2-Trichloroethane	48		"	50.0		96.8	74.5-129		2.02	20.3	
1,1-Dichloroethane	52		"	50.0		104	79.6-132		0.441	20.6	
1,1-Dichloroethylene	51		"	50.0		101	80.2-146		0.972	20	
1,1-Dichloropropylene	49		"	50.0		97.5	75-136		1.33	19.3	
1,2,3-Trichlorobenzene	51		"	50.0		103	66.1-136		6.12	21.6	
1,2,3-Trichloropropane	46		"	50.0		92.6	63-131		4.66	23.9	
1,2,4-Trichlorobenzene	49		"	50.0		97.2	70.6-136		3.58	21.7	
1,2,4-Trimethylbenzene	48		"	50.0		96.6	75.3-135		2.45	18.8	
1,2-Dibromo-3-chloropropane	50		"	50.0		99.3	58.9-140		5.49	27.7	
1,2-Dibromoethane	49		"	50.0		98.7	79-130		3.70	23	
1,2-Dichlorobenzene	47		"	50.0		93.6	76.1-122		3.57	19.8	
1,2-Dichloroethane	50		"	50.0		101	74.6-132		1.05	20.2	
1,2-Dichloropropane	50		"	50.0		101	76.9-129		1.50	20.7	
1,3,5-Trimethylbenzene	47		"	50.0		93.2	70.6-127		2.15	18.9	
1,3-Dichlorobenzene	46		"	50.0		93.0	77-124		2.42	19.2	
1,3-Dichloropropane	50		"	50.0		101	75.8-126		2.52	22.1	
1,4-Dichlorobenzene	47		"	50.0		94.5	76.6-125		3.60	18.6	
1,4-Dioxane	75		"	2000		3.77	70-130	Low Bias	13.5	30	
2,2-Dichloropropane	49		"	50.0		97.5	69-133		1.47	19.8	
2-Butanone	50		"	50.0		100	70-130		1.95	30	
2-Chlorotoluene	46		"	50.0		91.1	66.3-119		2.32	21.6	
4-Chlorotoluene	46		"	50.0		92.7	69.2-127		2.97	19	
Acetone	40		"	50.0		80.9	70-130		13.6	30	
Benzene	50		"	50.0		99.6	76.2-129		0.0201	19	
Bromobenzene	47		"	50.0		93.6	71.3-123		2.01	20.3	
Bromochloromethane	50		"	50.0		101	70.8-137		0.691	23.9	
Bromodichloromethane	52		"	50.0		105	79.7-134		0.0764	21	
Bromoform	51		"	50.0		102	70.5-141		4.10	21.8	
Bromomethane	61		"	50.0		121	43.9-147		5.31	28.4	
Carbon tetrachloride	51		"	50.0		103	78.1-138		1.21	20.1	
Chlorobenzene	49		"	50.0		98.5	80.4-125		2.03	19.9	
Chloroethane	48		"	50.0		96.9	55.8-140		2.59	23.3	
Chloroform	52		"	50.0		103	76.6-133		0.214	20.3	
Chloromethane	42		"	50.0		84.1	48.8-115		0.285	24.5	
cis-1,2-Dichloroethylene	50		"	50.0		99.4	75.1-128		0.981	20.5	
cis-1,3-Dichloropropylene	51		"	50.0		102	74.5-128		1.68	19.9	
Dibromochloromethane	53		"	50.0		106	79.8-134		0.361	21.3	
Dibromomethane	50		"	50.0		100	79-130		0.561	22.4	
Dichlorodifluoromethane	35		"	50.0		70.5	47.1-101		1.60	23.9	
Ethyl Benzene	50		"	50.0		99.7	80.8-128		1.10	19.2	
Hexachlorobutadiene	45		"	50.0		90.7	64.8-128		0.703	20.6	
Isopropylbenzene	51		"	50.0		101	75.5-135		1.72	20	
Methyl tert-butyl ether (MTBE)	55		"	50.0		109	65.1-140		0.801	23.6	
Methylene chloride	49		"	50.0		98.8	61.3-120		0.670	20.4	
Naphthalene	49		"	50.0		97.7	62.3-148		4.80	27.1	
n-Butylbenzene	45		"	50.0		90.9	67.2-123		2.00	19.1	
n-Propylbenzene	47		"	50.0		93.3	70.5-127		1.38	23.4	
o-Xylene	47		"	50.0		93.8	75.9-122		2.42	19.3	
p- & m- Xylenes	97		"	100		97.2	77.7-127		0.921	18.6	
p-Isopropyltoluene	48		"	50.0		95.8	75.6-129		2.23	19.1	



**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG20744 - EPA 5030B**

**LCS Dup (BG20744-BSD1)**

Prepared: 07/17/2012 Analyzed: 07/18/2012

sec-Butylbenzene	47		ug/L	50.0		93.3	71.5-125		0.726	18.9	
Styrene	49		"	50.0		98.0	77.8-123		2.10	20.9	
tert-Butylbenzene	52		"	50.0		103	75.9-151		1.33	20.9	
Tetrachloroethylene	50		"	50.0		101	63.6-167		0.868	27.7	
Toluene	49		"	50.0		98.1	77-123		1.70	18.7	
trans-1,2-Dichloroethylene	51		"	50.0		102	76.3-139		0.412	19.5	
trans-1,3-Dichloropropylene	50		"	50.0		100	72.5-137		2.63	19.3	
Trichloroethylene	48		"	50.0		96.1	77.9-130		1.30	20.5	
Trichlorofluoromethane	48		"	50.0		95.3	57.4-133		1.95	21.4	
Vinyl Chloride	45		"	50.0		89.4	54.9-124		0.269	22.3	
Vinyl acetate	33		"	50.0		66.1	70-130	Low Bias	4.29	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.9</i>		<i>"</i>	<i>50.0</i>		<i>99.8</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.7</i>		<i>"</i>	<i>50.0</i>		<i>99.3</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.1</i>	<i>81.2-127</i>				

**Batch BG20786 - EPA 5030B**

**Blank (BG20786-BLK1)**

Prepared: 07/18/2012 Analyzed: 07/19/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	50	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	10	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG20786 - EPA 5030B**

**Blank (BG20786-BLK1)**

Prepared: 07/18/2012 Analyzed: 07/19/2012

Chloroform	ND	5.0	ug/L								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
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Surrogate: 1,2-Dichloroethane-d4	53.7		"	50.0		107	72.6-129				
Surrogate: p-Bromofluorobenzene	49.5		"	50.0		98.9	63.5-145				
Surrogate: Toluene-d8	49.8		"	50.0		99.6	81.2-127				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit		Level	Result		Limits			Limit	
Batch BG20786 - EPA 5030B											
LCS (BG20786-BS1)				Prepared & Analyzed: 07/18/2012							
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		106	82.3-130				
1,1,1-Trichloroethane	47		"	50.0		93.4	75.6-137				
1,1,2,2-Tetrachloroethane	48		"	50.0		96.4	71.3-131				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0		89.1	71.1-129				
1,1,2-Trichloroethane	49		"	50.0		97.9	74.5-129				
1,1-Dichloroethane	50		"	50.0		100	79.6-132				
1,1-Dichloroethylene	48		"	50.0		95.3	80.2-146				
1,1-Dichloropropylene	47		"	50.0		93.6	75-136				
1,2,3-Trichlorobenzene	54		"	50.0		108	66.1-136				
1,2,3-Trichloropropane	47		"	50.0		93.4	63-131				
1,2,4-Trichlorobenzene	51		"	50.0		102	70.6-136				
1,2,4-Trimethylbenzene	48		"	50.0		96.9	75.3-135				
1,2-Dibromo-3-chloropropane	53		"	50.0		106	58.9-140				
1,2-Dibromoethane	50		"	50.0		100	79-130				
1,2-Dichlorobenzene	47		"	50.0		93.5	76.1-122				
1,2-Dichloroethane	48		"	50.0		96.4	74.6-132				
1,2-Dichloropropane	50		"	50.0		100	76.9-129				
1,3,5-Trimethylbenzene	46		"	50.0		92.6	70.6-127				
1,3-Dichlorobenzene	47		"	50.0		93.0	77-124				
1,3-Dichloropropane	51		"	50.0		101	75.8-126				
1,4-Dichlorobenzene	48		"	50.0		96.6	76.6-125				
1,4-Dioxane	48		"	2000		2.40	70-130	Low Bias			
2,2-Dichloropropane	45		"	50.0		90.6	69-133				
2-Butanone	50		"	50.0		101	70-130				
2-Chlorotoluene	45		"	50.0		89.8	66.3-119				
4-Chlorotoluene	47		"	50.0		93.4	69.2-127				
Acetone	41		"	50.0		82.5	70-130				
Benzene	48		"	50.0		95.2	76.2-129				
Bromobenzene	47		"	50.0		93.1	71.3-123				
Bromochloromethane	49		"	50.0		98.5	70.8-137				
Bromodichloromethane	52		"	50.0		104	79.7-134				
Bromoform	50		"	50.0		99.5	70.5-141				
Bromomethane	53		"	50.0		107	43.9-147				
Carbon tetrachloride	49		"	50.0		98.7	78.1-138				
Chlorobenzene	49		"	50.0		98.5	80.4-125				
Chloroethane	42		"	50.0		83.0	55.8-140				
Chloroform	49		"	50.0		97.9	76.6-133				
Chloromethane	40		"	50.0		79.6	48.8-115				
cis-1,2-Dichloroethylene	48		"	50.0		96.8	75.1-128				
cis-1,3-Dichloropropylene	50		"	50.0		100	74.5-128				
Dibromochloromethane	52		"	50.0		103	79.8-134				
Dibromomethane	51		"	50.0		103	79-130				
Dichlorodifluoromethane	36		"	50.0		71.8	47.1-101				
Ethyl Benzene	50		"	50.0		99.9	80.8-128				
Hexachlorobutadiene	44		"	50.0		88.0	64.8-128				
Isopropylbenzene	50		"	50.0		99.9	75.5-135				
Methyl tert-butyl ether (MTBE)	50		"	50.0		100	65.1-140				
Methylene chloride	46		"	50.0		92.2	61.3-120				
Naphthalene	52		"	50.0		104	62.3-148				
n-Butylbenzene	46		"	50.0		91.5	67.2-123				
n-Propylbenzene	46		"	50.0		92.9	70.5-127				
o-Xylene	47		"	50.0		93.5	75.9-122				
p- & m- Xylenes	97		"	100		97.1	77.7-127				
p-Isopropyltoluene	48		"	50.0		95.5	75.6-129				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BG20786 - EPA 5030B</b>											
<b>LCS (BG20786-BS1)</b>						Prepared & Analyzed: 07/18/2012					
sec-Butylbenzene	46		ug/L	50.0		92.1	71.5-125				
Styrene	49		"	50.0		98.5	77.8-123				
tert-Butylbenzene	50		"	50.0		99.8	75.9-151				
Tetrachloroethylene	54		"	50.0		107	63.6-167				
Toluene	49		"	50.0		98.1	77-123				
trans-1,2-Dichloroethylene	48		"	50.0		96.9	76.3-139				
trans-1,3-Dichloropropylene	50		"	50.0		99.9	72.5-137				
Trichloroethylene	49		"	50.0		98.2	77.9-130				
Trichlorofluoromethane	43		"	50.0		85.9	57.4-133				
Vinyl Chloride	42		"	50.0		83.3	54.9-124				
Vinyl acetate	30		"	50.0		60.9	70-130	Low Bias			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.2</i>		<i>"</i>	<i>50.0</i>		<i>98.5</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>48.4</i>		<i>"</i>	<i>50.0</i>		<i>96.8</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.7</i>		<i>"</i>	<i>50.0</i>		<i>99.3</i>	<i>81.2-127</i>				
<b>LCS Dup (BG20786-BSD1)</b>						Prepared & Analyzed: 07/18/2012					
1,1,1,2-Tetrachloroethane	56		ug/L	50.0		111	82.3-130		5.14	21.1	
1,1,1-Trichloroethane	51		"	50.0		102	75.6-137		9.19	19.7	
1,1,2,2-Tetrachloroethane	52		"	50.0		103	71.3-131		6.78	20.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		95.5	71.1-129		6.98	21.7	
1,1,2-Trichloroethane	53		"	50.0		105	74.5-129		7.22	20.3	
1,1-Dichloroethane	55		"	50.0		111	79.6-132		10.1	20.6	
1,1-Dichloroethylene	52		"	50.0		104	80.2-146		8.53	20	
1,1-Dichloropropylene	52		"	50.0		103	75-136		9.58	19.3	
1,2,3-Trichlorobenzene	55		"	50.0		110	66.1-136		1.47	21.6	
1,2,3-Trichloropropane	51		"	50.0		102	63-131		8.47	23.9	
1,2,4-Trichlorobenzene	50		"	50.0		99.0	70.6-136		3.32	21.7	
1,2,4-Trimethylbenzene	49		"	50.0		98.6	75.3-135		1.70	18.8	
1,2-Dibromo-3-chloropropane	55		"	50.0		110	58.9-140		3.42	27.7	
1,2-Dibromoethane	55		"	50.0		110	79-130		9.20	23	
1,2-Dichlorobenzene	49		"	50.0		97.4	76.1-122		4.13	19.8	
1,2-Dichloroethane	53		"	50.0		106	74.6-132		9.66	20.2	
1,2-Dichloropropane	54		"	50.0		109	76.9-129		8.02	20.7	
1,3,5-Trimethylbenzene	48		"	50.0		96.4	70.6-127		4.02	18.9	
1,3-Dichlorobenzene	47		"	50.0		94.7	77-124		1.83	19.2	
1,3-Dichloropropane	55		"	50.0		109	75.8-126		7.33	22.1	
1,4-Dichlorobenzene	48		"	50.0		96.4	76.6-125		0.228	18.6	
1,4-Dioxane	91		"	2000		4.57	70-130	Low Bias	62.4	30	Non-dir.
2,2-Dichloropropane	49		"	50.0		97.7	69-133		7.52	19.8	
2-Butanone	54		"	50.0		107	70-130		6.16	30	
2-Chlorotoluene	47		"	50.0		93.9	66.3-119		4.49	21.6	
4-Chlorotoluene	48		"	50.0		95.4	69.2-127		2.05	19	
Acetone	43		"	50.0		87.0	70-130		5.31	30	
Benzene	52		"	50.0		104	76.2-129		8.85	19	
Bromobenzene	49		"	50.0		97.4	71.3-123		4.47	20.3	
Bromochloromethane	54		"	50.0		108	70.8-137		8.75	23.9	
Bromodichloromethane	56		"	50.0		112	79.7-134		7.18	21	
Bromoform	54		"	50.0		109	70.5-141		8.65	21.8	
Bromomethane	59		"	50.0		118	43.9-147		9.59	28.4	
Carbon tetrachloride	53		"	50.0		107	78.1-138		7.92	20.1	
Chlorobenzene	52		"	50.0		105	80.4-125		6.37	19.9	
Chloroethane	46		"	50.0		92.2	55.8-140		10.5	23.3	
Chloroform	54		"	50.0		108	76.6-133		9.51	20.3	
Chloromethane	44		"	50.0		88.0	48.8-115		10.0	24.5	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG20786 - EPA 5030B**

**LCS Dup (BG20786-BSD1)**

Prepared & Analyzed: 07/18/2012

cis-1,2-Dichloroethylene	53		ug/L	50.0		105	75.1-128		8.24	20.5	
cis-1,3-Dichloropropylene	53		"	50.0		106	74.5-128		5.07	19.9	
Dibromochloromethane	57		"	50.0		113	79.8-134		9.22	21.3	
Dibromomethane	54		"	50.0		108	79-130		4.58	22.4	
Dichlorodifluoromethane	39		"	50.0		78.1	47.1-101		8.46	23.9	
Ethyl Benzene	53		"	50.0		106	80.8-128		6.02	19.2	
Hexachlorobutadiene	45		"	50.0		89.8	64.8-128		2.02	20.6	
Isopropylbenzene	53		"	50.0		105	75.5-135		4.96	20	
Methyl tert-butyl ether (MTBE)	55		"	50.0		110	65.1-140		9.05	23.6	
Methylene chloride	54		"	50.0		108	61.3-120		15.9	20.4	
Naphthalene	55		"	50.0		109	62.3-148		5.21	27.1	
n-Butylbenzene	46		"	50.0		92.4	67.2-123		0.979	19.1	
n-Propylbenzene	48		"	50.0		95.5	70.5-127		2.76	23.4	
o-Xylene	50		"	50.0		101	75.9-122		7.51	19.3	
p- & m- Xylenes	100		"	100		103	77.7-127		5.55	18.6	
p-Isopropyltoluene	49		"	50.0		98.8	75.6-129		3.40	19.1	
sec-Butylbenzene	48		"	50.0		95.9	71.5-125		4.11	18.9	
Styrene	53		"	50.0		105	77.8-123		6.52	20.9	
tert-Butylbenzene	52		"	50.0		105	75.9-151		5.08	20.9	
Tetrachloroethylene	57		"	50.0		114	63.6-167		6.16	27.7	
Toluene	52		"	50.0		105	77-123		6.49	18.7	
trans-1,2-Dichloroethylene	53		"	50.0		105	76.3-139		8.23	19.5	
trans-1,3-Dichloropropylene	54		"	50.0		107	72.5-137		7.31	19.3	
Trichloroethylene	52		"	50.0		104	77.9-130		6.24	20.5	
Trichlorofluoromethane	47		"	50.0		93.4	57.4-133		8.32	21.4	
Vinyl Chloride	45		"	50.0		90.0	54.9-124		7.78	22.3	
Vinyl acetate	33		"	50.0		66.7	70-130	Low Bias	9.00	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.3</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.1</i>		<i>"</i>	<i>50.0</i>		<i>98.2</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>81.2-127</i>				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit			Result		Limits			Limit	
Batch BG20786 - EPA 5030B											
Matrix Spike (BG20786-MS1)		*Source sample: 12G0446-04 (MW26)					Prepared: 07/18/2012 Analyzed: 07/19/2012				
1,1,1,2-Tetrachloroethane	51		ug/L	50.0	ND	102	82-138				
1,1,1-Trichloroethane	48		"	50.0	ND	96.5	85.7-133				
1,1,2,2-Tetrachloroethane	47		"	50.0	ND	94.7	78.6-136				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46		"	50.0	ND	92.8	74.8-131				
1,1,2-Trichloroethane	49		"	50.0	ND	97.2	82.5-129				
1,1-Dichloroethane	51		"	50.0	ND	102	81.4-137				
1,1-Dichloroethylene	49		"	50.0	ND	98.4	90-138				
1,1-Dichloropropylene	47		"	50.0	ND	94.4	91.7-131				
1,2,3-Trichlorobenzene	46		"	50.0	ND	92.7	75.9-130				
1,2,3-Trichloropropane	46		"	50.0	ND	91.4	77.1-140				
1,2,4-Trichlorobenzene	43		"	50.0	ND	85.1	69.8-135				
1,2,4-Trimethylbenzene	46		"	50.0	ND	91.5	79.4-131				
1,2-Dibromo-3-chloropropane	50		"	50.0	ND	100	66.6-143				
1,2-Dibromoethane	49		"	50.0	ND	98.8	79.8-136				
1,2-Dichlorobenzene	44		"	50.0	ND	88.2	79.9-130				
1,2-Dichloroethane	50		"	50.0	ND	99.6	85-133				
1,2-Dichloropropane	49		"	50.0	ND	98.4	81.1-132				
1,3,5-Trimethylbenzene	45		"	50.0	ND	89.7	76.1-121				
1,3-Dichlorobenzene	43		"	50.0	ND	86.5	79.1-124				
1,3-Dichloropropane	49		"	50.0	ND	97.5	83.3-130				
1,4-Dichlorobenzene	44		"	50.0	ND	87.2	79.4-128				
1,4-Dioxane	87		"	2000	ND	4.33	70-130	Low Bias			
2,2-Dichloropropane	45		"	50.0	ND	90.3	54.2-126				
2-Butanone	48		"	50.0	ND	96.0	70-130				
2-Chlorotoluene	44		"	50.0	ND	87.2	60.2-144				
4-Chlorotoluene	44		"	50.0	ND	87.2	79.8-128				
Acetone	44		"	50.0	0.052	88.5	70-130				
Benzene	49		"	50.0	ND	97.9	74.1-134				
Bromobenzene	44		"	50.0	ND	88.8	76.6-125				
Bromochloromethane	50		"	50.0	ND	99.9	85-133				
Bromodichloromethane	52		"	50.0	ND	104	80.8-143				
Bromoform	48		"	50.0	ND	95.7	65.8-164				
Bromomethane	56		"	50.0	ND	112	68.7-112				
Carbon tetrachloride	50		"	50.0	ND	100	85.7-138				
Chlorobenzene	49		"	50.0	ND	97.6	79.9-129				
Chloroethane	45		"	50.0	ND	89.9	74.7-127				
Chloroform	51		"	50.0	ND	102	50.6-145				
Chloromethane	44		"	50.0	ND	87.9	64-111				
cis-1,2-Dichloroethylene	50		"	50.0	2.6	95.8	75.5-129				
cis-1,3-Dichloropropylene	49		"	50.0	ND	97.4	74.3-128				
Dibromochloromethane	51		"	50.0	ND	102	76.8-150				
Dibromomethane	50		"	50.0	ND	99.2	83.3-140				
Dichlorodifluoromethane	36		"	50.0	ND	72.3	51-100				
Ethyl Benzene	48		"	50.0	ND	96.9	82.9-127				
Hexachlorobutadiene	41		"	50.0	ND	82.4	73-128				
Isopropylbenzene	49		"	50.0	ND	97.8	78.7-131				
Methyl tert-butyl ether (MTBE)	50		"	50.0	ND	100	81.2-134				
Methylene chloride	48		"	50.0	0.080	95.6	57.8-103				
Naphthalene	46		"	50.0	ND	92.2	80.1-122				
n-Butylbenzene	42		"	50.0	ND	83.9	72.4-120				
n-Propylbenzene	44		"	50.0	ND	88.9	74-130				
o-Xylene	46		"	50.0	ND	91.4	78.8-122				
p- & m- Xylenes	94		"	100	ND	93.9	82.5-123				
p-Isopropyltoluene	45		"	50.0	ND	90.8	64.9-132				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BG20786 - EPA 5030B</b>											
<b>Matrix Spike (BG20786-MS1)</b>	*Source sample: 12G0446-04 (MW26)						Prepared: 07/18/2012 Analyzed: 07/19/2012				
sec-Butylbenzene	44		ug/L	50.0	ND	88.8	25.4-151				
Styrene	48		"	50.0	ND	95.3	74.1-134				
tert-Butylbenzene	51		"	50.0	ND	102	79.5-171				
Tetrachloroethylene	120		"	50.0	86	67.8	72.5-130	Low Bias			
Toluene	49		"	50.0	ND	97.2	77.8-121				
trans-1,2-Dichloroethylene	50		"	50.0	0.033	100	83.8-140				
trans-1,3-Dichloropropylene	48		"	50.0	ND	95.8	74.9-136				
Trichloroethylene	49		"	50.0	2.3	94.3	84.4-125				
Trichlorofluoromethane	45		"	50.0	ND	89.1	78.7-127				
Vinyl Chloride	43		"	50.0	0.13	85.1	72.1-116				
Vinyl acetate	31		"	50.0	ND	61.7	70-130	Low Bias			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.7</i>		<i>"</i>	<i>50.0</i>		<i>99.4</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>81.2-127</i>				
<b>Matrix Spike Dup (BG20786-MSD1)</b>	*Source sample: 12G0446-04 (MW26)						Prepared: 07/18/2012 Analyzed: 07/19/2012				
1,1,1,2-Tetrachloroethane	53		ug/L	50.0	ND	107	82-138		4.41	21.3	
1,1,1-Trichloroethane	51		"	50.0	ND	102	85.7-133		5.23	22.6	
1,1,2,2-Tetrachloroethane	49		"	50.0	ND	97.9	78.6-136		3.26	23.1	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0	ND	96.6	74.8-131		4.04	25.6	
1,1,2-Trichloroethane	50		"	50.0	ND	99.2	82.5-129		2.04	19.3	
1,1-Dichloroethane	54		"	50.0	ND	108	81.4-137		5.36	20.7	
1,1-Dichloroethylene	51		"	50.0	ND	103	90-138		4.45	22.9	
1,1-Dichloropropylene	50		"	50.0	ND	99.1	91.7-131		4.90	24.9	
1,2,3-Trichlorobenzene	49		"	50.0	ND	98.3	75.9-130		5.78	21.4	
1,2,3-Trichloropropane	48		"	50.0	ND	96.5	77.1-140		5.39	28	
1,2,4-Trichlorobenzene	44		"	50.0	ND	88.9	69.8-135		4.30	22.5	
1,2,4-Trimethylbenzene	47		"	50.0	ND	93.9	79.4-131		2.63	33.9	
1,2-Dibromo-3-chloropropane	52		"	50.0	ND	104	66.6-143		3.79	23.3	
1,2-Dibromoethane	52		"	50.0	ND	105	79.8-136		6.03	19.1	
1,2-Dichlorobenzene	46		"	50.0	ND	92.5	79.9-130		4.71	23.2	
1,2-Dichloroethane	52		"	50.0	ND	103	85-133		3.71	19.1	
1,2-Dichloropropane	52		"	50.0	ND	104	81.1-132		5.67	19.9	
1,3,5-Trimethylbenzene	45		"	50.0	ND	90.8	76.1-121		1.22	31.2	
1,3-Dichlorobenzene	44		"	50.0	ND	88.7	79.1-124		2.49	22.6	
1,3-Dichloropropane	50		"	50.0	ND	101	83.3-130		3.25	20.9	
1,4-Dichlorobenzene	45		"	50.0	ND	90.1	79.4-128		3.27	21	
1,4-Dioxane	78		"	2000	ND	3.91	70-130	Low Bias	10.1	30	
2,2-Dichloropropane	47		"	50.0	ND	94.8	54.2-126		4.89	24.5	
2-Butanone	49		"	50.0	ND	98.7	70-130		2.75	30	
2-Chlorotoluene	45		"	50.0	ND	89.6	60.2-144		2.72	30.8	
4-Chlorotoluene	45		"	50.0	ND	89.4	79.8-128		2.47	23.2	
Acetone	43		"	50.0	0.052	86.2	70-130		2.66	30	
Benzene	51		"	50.0	ND	102	74.1-134		4.43	20.8	
Bromobenzene	46		"	50.0	ND	91.7	76.6-125		3.26	23	
Bromochloromethane	54		"	50.0	ND	107	85-133		7.05	18.4	
Bromodichloromethane	54		"	50.0	ND	107	80.8-143		3.04	18.1	
Bromoform	50		"	50.0	ND	100	65.8-164		4.59	27.3	
Bromomethane	58		"	50.0	ND	117	68.7-112	High Bias	3.72	22.8	
Carbon tetrachloride	52		"	50.0	ND	104	85.7-138		3.50	25.1	
Chlorobenzene	50		"	50.0	ND	99.9	79.9-129		2.37	21	
Chloroethane	47		"	50.0	ND	93.9	74.7-127		4.37	23.7	
Chloroform	53		"	50.0	ND	106	50.6-145		3.99	21.7	
Chloromethane	43		"	50.0	ND	86.1	64-111		2.11	21.4	



**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG20786 - EPA 5030B**

<b>Matrix Spike Dup (BG20786-MSD1)</b>	*Source sample: 12G0446-04 (MW26)				Prepared: 07/18/2012 Analyzed: 07/19/2012						
cis-1,2-Dichloroethylene	53		ug/L	50.0	2.6	102	75.5-129		6.11	20.2	
cis-1,3-Dichloropropylene	51		"	50.0	ND	102	74.3-128		4.61	19.8	
Dibromochloromethane	54		"	50.0	ND	108	76.8-150		6.11	20.8	
Dibromomethane	52		"	50.0	ND	104	83.3-140		4.82	20.4	
Dichlorodifluoromethane	37		"	50.0	ND	74.0	51-100		2.27	27.6	
Ethyl Benzene	50		"	50.0	ND	100	82.9-127		3.29	21.4	
Hexachlorobutadiene	42		"	50.0	ND	84.9	73-128		3.01	26	
Isopropylbenzene	50		"	50.0	ND	100	78.7-131		2.40	26.7	
Methyl tert-butyl ether (MTBE)	54		"	50.0	ND	107	81.2-134		6.70	21.2	
Methylene chloride	50		"	50.0	0.080	100	57.8-103		4.82	21.2	
Naphthalene	49		"	50.0	ND	98.0	80.1-122		6.16	26.1	
n-Butylbenzene	43		"	50.0	ND	85.1	72.4-120		1.42	30.8	
n-Propylbenzene	45		"	50.0	ND	90.8	74-130		2.09	31	
o-Xylene	48		"	50.0	ND	95.7	78.8-122		4.53	21	
p- & m- Xylenes	97		"	100	ND	97.1	82.5-123		3.32	22.5	
p-Isopropyltoluene	47		"	50.0	ND	93.2	64.9-132		2.63	25.2	
sec-Butylbenzene	46		"	50.0	ND	91.2	25.4-151		2.69	25.2	
Styrene	50		"	50.0	ND	99.1	74.1-134		3.93	20	
tert-Butylbenzene	51		"	50.0	ND	103	79.5-171		0.624	24.8	
Tetrachloroethylene	120		"	50.0	86	75.7	72.5-130		11.0	22.7	
Toluene	50		"	50.0	ND	99.7	77.8-121		2.58	21.5	
trans-1,2-Dichloroethylene	52		"	50.0	0.033	103	83.8-140		3.21	20.1	
trans-1,3-Dichloropropylene	49		"	50.0	ND	98.9	74.9-136		3.18	22.5	
Trichloroethylene	50		"	50.0	2.3	96.2	84.4-125		1.99	20.7	
Trichlorofluoromethane	46		"	50.0	ND	92.0	78.7-127		3.27	24.7	
Vinyl Chloride	45		"	50.0	0.13	89.0	72.1-116		4.55	24.9	
Vinyl acetate	33		"	50.0	ND	66.6	70-130	Low Bias	7.73	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.2</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.2</i>		<i>"</i>	<i>50.0</i>		<i>98.5</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.7</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>	<i>81.2-127</i>				

**Notes and Definitions**

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
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); therefore, 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/>	
ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
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.

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YORK

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615  
(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 unless superseded by written contract.

York Project No. 1260446

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
MID-HUDSON GEOSCIENCES 1003 N.Y. ROUTE 44/55 P.O. BOX 332 CLINTONDALE, NY 12515-0332		<input checked="" type="checkbox"/> SAME Name: <u>Mr. Erez Italevich</u> Company: <u>American Clean</u> Address: <u>360 Rt 211 East</u> <u>Middletown, NY 10940</u> E-mail: <u>lge@net</u>		<input type="checkbox"/> SAME Name: <u>Mr. Erez Italevich</u> Company: <u>American Clean</u> Address: <u>360 Rt 211 East</u> <u>Middletown, NY 10940</u> E-mail: <u>lge@net</u>		<u>AC Middletown</u> <u>Re-eval gw</u> <u>Purchase Order #</u> <u>1260446</u>		RUSH-Same Day RUSH-Next Day RUSH-Two Day RUSH-Three Day RUSH-Four Day Standard (5-7 day) <input checked="" type="checkbox"/>		Summary Report <input checked="" type="checkbox"/> QA Report CT RCP CT RCP DOA/DUE Pkg NY ASP A Package <input checked="" type="checkbox"/> NY ASP B Package NUDEP Reduced 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.											
Katherine J. Beinkafner Samples Collected/Authorized By (Signature) Katherine J. Beinkafner Name (printed)											
Matrix Codes S - soil Other - specify (cal, etc.) WW - wastewater GW - groundwater DW - drinking water Air - A - ambient air Air-SV - soil vapor											
Sample Identification	Date/Time Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description							
T7	7/11/12 6:15 pm	GW	8260 Full	2 40 ml glass vial							
MW28	7/11/12 11:45 am	GW	8260 full	3 40 ml glass vial							
T5	7/11/12 7:20 pm	GW	8260 full	3 40 ml glass vial							
MW26	7/11/12 3:10 pm	GW	8260 full	3 40 ml glass vial							
MS	7/11/12 3:15 pm	GW	8260 full	3 40 ml glass vial							
MSD	7/11/12 3:20 pm	GW	8260 full	3 40 ml glass vial							
MW25	7/11/12 4:53 pm	GW	8260 full	3 40 ml glass vial							
trip blank	7/11/12 -	distilled water	8260 full	2 40 ml glass vial							
EQUIP. Blank	7/11/12 -	distilled water	8260 full	3 40 ml glass vial							
Preservation (check all applicable) 4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input checked="" type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> Other <input type="checkbox"/>				Temperature on Receipt 4.3 °C							
Comments: <u>Chemical of concern:</u> <u>PCE and degradation byproducts</u>											
Samples Relinquished By <u>Katherine J. Beinkafner</u> Date/Time <u>7/13/12 7 AM</u>		Samples Received By <u>Chen C</u> Date/Time <u>7-13-12 12:55</u>									
Samples Relinquished By <u>Katherine J. Beinkafner</u> Date/Time <u>7/13/12 7 AM</u>		Samples Received in LAB by <u>Chen C</u> Date/Time <u>7-13-12 1610</u>									

# Technical Report

prepared for:

**Mid-Hudson Geosciences  
1003 NY Route 44/55  
P.O.Box 332  
Clintondale, NY 12515-0332  
Attention: Katherine Beinkafner, PhD**

Report Date: 1/25/2010  
***Re: Client Project ID: AC Middletown***  
York Project No.: 10010484

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854

PA Reg. 68-04440



Report Date: 1/25/2010  
Client Project ID: AC Middletown  
York Project No.: 10010484

**Mid-Hudson Geosciences**  
1003 NY Route 44/55  
P.O.Box 332  
Clintondale, NY 12515-0332  
Attention: Katherine Beinkafner, PhD

## 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 01/18/10. The project was identified as your project "AC Middletown".

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 NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

### Analysis Results

Client Sample ID			T7		
York Sample ID			10010484-01		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0

<b>Client Sample ID</b>			<b>T7</b>		
<b>York Sample ID</b>			<b>10010484-01</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			1	J	5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			4	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0



<b>Client Sample ID</b>			<b>T6</b>		
<b>York Sample ID</b>			<b>10010484-02</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0



<b>Client Sample ID</b>			<b>T6</b>		
<b>York Sample ID</b>			<b>10010484-02</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>T5</b>		
<b>York Sample ID</b>			<b>10010484-03</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0

<b>Client Sample ID</b>			<b>T5</b>		
<b>York Sample ID</b>			<b>10010484-03</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			24		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			2	JB	5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			47		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			4	J	5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>MW28</b>		
<b>York Sample ID</b>			<b>10010484-04</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0

<b>Client Sample ID</b>			<b>MW28</b>		
<b>York Sample ID</b>			<b>10010484-04</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			25		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			270		25.0
Toluene			Not detected		5.0

<b>Client Sample ID</b>			<b>MW28</b>		
<b>York Sample ID</b>			<b>10010484-04</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			24		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>T4</b>		
<b>York Sample ID</b>			<b>10010484-05</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0

Client Sample ID			T4		
York Sample ID			10010484-05		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			6	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			1	J	5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

Client Sample ID			T3		
York Sample ID			10010484-06		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0

<b>Client Sample ID</b>			<b>T3</b>		
<b>York Sample ID</b>			<b>10010484-06</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			1	J	5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			18		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			2	J	5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>MW24</b>		
<b>York Sample ID</b>			<b>10010484-07</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			4	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0



<b>Client Sample ID</b>			<b>MW24</b>		
<b>York Sample ID</b>			<b>10010484-07</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>MW24 Duplicate</b>		
<b>York Sample ID</b>			<b>10010484-08</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0

Client Sample ID			MW24 Duplicate		
York Sample ID			10010484-08		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

Client Sample ID			MW31		
York Sample ID			10010484-09		
Matrix			WATER		
Parameter	Method	Units	Result	Qualifier	RL
Volatiles, 8260 List	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0

<b>Client Sample ID</b>			<b>MW31</b>		
<b>York Sample ID</b>			<b>10010484-09</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			4	JB	5.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0

<b>Client Sample ID</b>			<b>MW31</b>		
<b>York Sample ID</b>			<b>10010484-09</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>T1</b>		
<b>York Sample ID</b>			<b>10010484-10</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0

<b>Client Sample ID</b>			<b>T1</b>		
<b>York Sample ID</b>			<b>10010484-10</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>MW22</b>		
<b>York Sample ID</b>			<b>10010484-11</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0

<b>Client Sample ID</b>			<b>MW22</b>		
<b>York Sample ID</b>			<b>10010484-11</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			4	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			42		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>T9</b>		
<b>York Sample ID</b>			<b>10010484-12</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0



<b>Client Sample ID</b>			<b>T9</b>		
<b>York Sample ID</b>			<b>10010484-12</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>T8</b>		
<b>York Sample ID</b>			<b>10010484-13</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0

<b>Client Sample ID</b>			<b>T8</b>		
<b>York Sample ID</b>			<b>10010484-13</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			4	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>MW21</b>		
<b>York Sample ID</b>			<b>10010484-14</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0

<b>Client Sample ID</b>			<b>MW21</b>		
<b>York Sample ID</b>			<b>10010484-14</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			2	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0

<b>Client Sample ID</b>			<b>MW21</b>		
<b>York Sample ID</b>			<b>10010484-14</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>MW26</b>		
<b>York Sample ID</b>			<b>10010484-15</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0

<b>Client Sample ID</b>			<b>MW26</b>		
<b>York Sample ID</b>			<b>10010484-15</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
cis-1,2-Dichloroethylene			64		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			4	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			2600		250
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			64		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			2	J	5.0

<b>Client Sample ID</b>			<b>MW25</b>		
<b>York Sample ID</b>			<b>10010484-16</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0

<b>Client Sample ID</b>			<b>MW25</b>		
<b>York Sample ID</b>			<b>10010484-16</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			22		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			4	JB	10.0
MTBE			Not detected		5.0
Naphthalene			4	JB	5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			910		50.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			19		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>MW3</b>		
<b>York Sample ID</b>			<b>10010484-17</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		25
1,1,1-Trichloroethane			Not detected		25
1,1,2,2-Tetrachloroethane			Not detected		25
1,1,2-Trichloroethane			Not detected		25
1,1-Dichloroethane			Not detected		25
1,1-Dichloroethylene			Not detected		25
1,1-Dichloropropylene			Not detected		25
1,2,3-Trichlorobenzene			Not detected		25
1,2,3-Trichloropropane			Not detected		25
1,2,4-Trichlorobenzene			Not detected		25
1,2,4-Trimethylbenzene			Not detected		25
1,2-Dibromo-3-chloropropane			Not detected		25
1,2-Dibromoethane			Not detected		25
1,2-Dichlorobenzene			Not detected		25
1,2-Dichloroethane			Not detected		25
1,2-Dichloropropane			Not detected		25
1,3,5-Trimethylbenzene			Not detected		25
1,3-Dichlorobenzene			Not detected		25
1,3-Dichloropropane			Not detected		25
1,4-Dichlorobenzene			Not detected		25
2,2-Dichloropropane			Not detected		25
2-Chlorotoluene			Not detected		25
4-Chlorotoluene			Not detected		25
Benzene			Not detected		25
Bromobenzene			Not detected		25
Bromochloromethane			Not detected		25
Bromodichloromethane			Not detected		25
Bromoform			Not detected		25
Bromomethane			Not detected		25
Carbon tetrachloride			Not detected		25
Chlorobenzene			Not detected		25
Chloroethane			Not detected		25
Chloroform			Not detected		25
Chloromethane			Not detected		25
cis-1,2-Dichloroethylene			15	J	25
cis-1,3-Dichloropropylene			Not detected		25
Dibromochloromethane			Not detected		25
Dibromomethane			Not detected		25
Dichlorodifluoromethane			Not detected		25
Ethylbenzene			Not detected		25
Hexachlorobutadiene			Not detected		25
Isopropylbenzene			Not detected		25
Methylene chloride			13	JB	50
MTBE			6	J	25
Naphthalene			Not detected		25
n-Butylbenzene			Not detected		25



<b>Client Sample ID</b>			<b>MW3</b>		
<b>York Sample ID</b>			<b>10010484-17</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
n-Propylbenzene			Not detected		25
o-Xylene			Not detected		25
p- & m-Xylenes			Not detected		25
p-Isopropyltoluene			Not detected		25
sec-Butylbenzene			Not detected		25
Styrene			Not detected		25
tert-Butylbenzene			Not detected		25
Tetrachloroethylene			430		25
Toluene			Not detected		25
trans-1,2-Dichloroethylene			Not detected		25
trans-1,3-Dichloropropylene			Not detected		25
Trichloroethylene			10	J	25
Trichlorofluoromethane			Not detected		25
Vinyl chloride			Not detected		25

<b>Client Sample ID</b>			<b>MW7</b>		
<b>York Sample ID</b>			<b>10010484-18</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0

<b>Client Sample ID</b>			<b>MW7</b>		
<b>York Sample ID</b>			<b>10010484-18</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			3	J	5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			69		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			7		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>MW6</b>		
<b>York Sample ID</b>			<b>10010484-19</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		25
1,1,1-Trichloroethane			Not detected		25
1,1,2,2-Tetrachloroethane			Not detected		25
1,1,2-Trichloroethane			Not detected		25
1,1-Dichloroethane			Not detected		25
1,1-Dichloroethylene			Not detected		25
1,1-Dichloropropylene			Not detected		25
1,2,3-Trichlorobenzene			Not detected		25

<b>Client Sample ID</b>			<b>MW6</b>		
<b>York Sample ID</b>			<b>10010484-19</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,2,3-Trichloropropane			Not detected		25
1,2,4-Trichlorobenzene			Not detected		25
1,2,4-Trimethylbenzene			Not detected		25
1,2-Dibromo-3-chloropropane			Not detected		25
1,2-Dibromoethane			Not detected		25
1,2-Dichlorobenzene			Not detected		25
1,2-Dichloroethane			Not detected		25
1,2-Dichloropropane			Not detected		25
1,3,5-Trimethylbenzene			Not detected		25
1,3-Dichlorobenzene			Not detected		25
1,3-Dichloropropane			Not detected		25
1,4-Dichlorobenzene			Not detected		25
2,2-Dichloropropane			Not detected		25
2-Chlorotoluene			Not detected		25
4-Chlorotoluene			Not detected		25
Benzene			Not detected		25
Bromobenzene			Not detected		25
Bromochloromethane			Not detected		25
Bromodichloromethane			Not detected		25
Bromoform			Not detected		25
Bromomethane			Not detected		25
Carbon tetrachloride			Not detected		25
Chlorobenzene			Not detected		25
Chloroethane			Not detected		25
Chloroform			Not detected		25
Chloromethane			Not detected		25
cis-1,2-Dichloroethylene			Not detected		25
cis-1,3-Dichloropropylene			Not detected		25
Dibromochloromethane			Not detected		25
Dibromomethane			Not detected		25
Dichlorodifluoromethane			Not detected		25
Ethylbenzene			Not detected		25
Hexachlorobutadiene			Not detected		25
Isopropylbenzene			Not detected		25
Methylene chloride			13	JB	50
MTBE			Not detected		25
Naphthalene			Not detected		25
n-Butylbenzene			Not detected		25
n-Propylbenzene			Not detected		25
o-Xylene			Not detected		25
p- & m-Xylenes			Not detected		25
p-Isopropyltoluene			Not detected		25
sec-Butylbenzene			Not detected		25
Styrene			Not detected		25
tert-Butylbenzene			Not detected		25
Tetrachloroethylene			280		25

<b>Client Sample ID</b>			<b>MW6</b>		
<b>York Sample ID</b>			<b>10010484-19</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Toluene			Not detected		25
trans-1,2-Dichloroethylene			Not detected		25
trans-1,3-Dichloropropylene			Not detected		25
Trichloroethylene			Not detected		25
Trichlorofluoromethane			Not detected		25
Vinyl chloride			Not detected		25

<b>Client Sample ID</b>			<b>MW5</b>		
<b>York Sample ID</b>			<b>10010484-20</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		10
1,1,1-Trichloroethane			Not detected		10
1,1,2,2-Tetrachloroethane			Not detected		10
1,1,2-Trichloroethane			Not detected		10
1,1-Dichloroethane			Not detected		10
1,1-Dichloroethylene			Not detected		10
1,1-Dichloropropylene			Not detected		10
1,2,3-Trichlorobenzene			Not detected		10
1,2,3-Trichloropropane			Not detected		10
1,2,4-Trichlorobenzene			Not detected		10
1,2,4-Trimethylbenzene			Not detected		10
1,2-Dibromo-3-chloropropane			Not detected		10
1,2-Dibromoethane			Not detected		10
1,2-Dichlorobenzene			Not detected		10
1,2-Dichloroethane			Not detected		10
1,2-Dichloropropane			Not detected		10
1,3,5-Trimethylbenzene			Not detected		10
1,3-Dichlorobenzene			Not detected		10
1,3-Dichloropropane			Not detected		10
1,4-Dichlorobenzene			Not detected		10
2,2-Dichloropropane			Not detected		10
2-Chlorotoluene			Not detected		10
4-Chlorotoluene			Not detected		10
Benzene			Not detected		10
Bromobenzene			Not detected		10
Bromochloromethane			Not detected		10
Bromodichloromethane			Not detected		10
Bromoform			Not detected		10
Bromomethane			Not detected		10
Carbon tetrachloride			Not detected		10
Chlorobenzene			Not detected		10
Chloroethane			Not detected		10
Chloroform			Not detected		10
Chloromethane			Not detected		10

<b>Client Sample ID</b>			<b>MW5</b>		
<b>York Sample ID</b>			<b>10010484-20</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
cis-1,2-Dichloroethylene			5	J	10
cis-1,3-Dichloropropylene			Not detected		10
Dibromochloromethane			Not detected		10
Dibromomethane			Not detected		10
Dichlorodifluoromethane			Not detected		10
Ethylbenzene			Not detected		10
Hexachlorobutadiene			Not detected		10
Isopropylbenzene			Not detected		10
Methylene chloride			5	JB	20
MTBE			Not detected		10
Naphthalene			Not detected		10
n-Butylbenzene			Not detected		10
n-Propylbenzene			Not detected		10
o-Xylene			Not detected		10
p- & m-Xylenes			Not detected		10
p-Isopropyltoluene			Not detected		10
sec-Butylbenzene			Not detected		10
Styrene			Not detected		10
tert-Butylbenzene			Not detected		10
Tetrachloroethylene			240		10
Toluene			Not detected		10
trans-1,2-Dichloroethylene			Not detected		10
trans-1,3-Dichloropropylene			Not detected		10
Trichloroethylene			11		10
Trichlorofluoromethane			Not detected		10
Vinyl chloride			Not detected		10

<b>Client Sample ID</b>			<b>MW2</b>		
<b>York Sample ID</b>			<b>10010484-21</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0

<b>Client Sample ID</b>			<b>MW2</b>		
<b>York Sample ID</b>			<b>10010484-21</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			110		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>MW30</b>		
<b>York Sample ID</b>			<b>10010484-22</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0



<b>Client Sample ID</b>			<b>MW30</b>		
<b>York Sample ID</b>			<b>10010484-22</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			110		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>MW4</b>		
<b>York Sample ID</b>			<b>10010484-23</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0

<b>Client Sample ID</b>			<b>MW4</b>		
<b>York Sample ID</b>			<b>10010484-23</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>MW1B</b>		
<b>York Sample ID</b>			<b>10010484-24</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0

<b>Client Sample ID</b>			<b>MW1B</b>		
<b>York Sample ID</b>			<b>10010484-24</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			2	JB	5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0

<b>Client Sample ID</b>			<b>MW1B</b>		
<b>York Sample ID</b>			<b>10010484-24</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>SW1</b>		
<b>York Sample ID</b>			<b>10010484-25</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0

<b>Client Sample ID</b>			<b>SW1</b>		
<b>York Sample ID</b>			<b>10010484-25</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>SW2</b>		
<b>York Sample ID</b>			<b>10010484-26</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0

<b>Client Sample ID</b>			<b>SW2</b>		
<b>York Sample ID</b>			<b>10010484-26</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>TRIP BLANK</b>		
<b>York Sample ID</b>			<b>10010484-27</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0



<b>Client Sample ID</b>			<b>TRIP BLANK</b>		
<b>York Sample ID</b>			<b>10010484-27</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>EQUIPMENT BLANK</b>		
<b>York Sample ID</b>			<b>10010484-28</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		5.0
1,1,1-Trichloroethane			Not detected		5.0
1,1,2,2-Tetrachloroethane			Not detected		5.0
1,1,2-Trichloroethane			Not detected		5.0
1,1-Dichloroethane			Not detected		5.0
1,1-Dichloroethylene			Not detected		5.0
1,1-Dichloropropylene			Not detected		5.0
1,2,3-Trichlorobenzene			Not detected		5.0
1,2,3-Trichloropropane			Not detected		5.0
1,2,4-Trichlorobenzene			Not detected		5.0
1,2,4-Trimethylbenzene			Not detected		5.0
1,2-Dibromo-3-chloropropane			Not detected		5.0
1,2-Dibromoethane			Not detected		5.0
1,2-Dichlorobenzene			Not detected		5.0
1,2-Dichloroethane			Not detected		5.0
1,2-Dichloropropane			Not detected		5.0
1,3,5-Trimethylbenzene			Not detected		5.0
1,3-Dichlorobenzene			Not detected		5.0
1,3-Dichloropropane			Not detected		5.0
1,4-Dichlorobenzene			Not detected		5.0
2,2-Dichloropropane			Not detected		5.0
2-Chlorotoluene			Not detected		5.0
4-Chlorotoluene			Not detected		5.0
Benzene			Not detected		5.0
Bromobenzene			Not detected		5.0
Bromochloromethane			Not detected		5.0
Bromodichloromethane			Not detected		5.0
Bromoform			Not detected		5.0

<b>Client Sample ID</b>			<b>EQUIPMENT BLANK</b>		
<b>York Sample ID</b>			<b>10010484-28</b>		
<b>Matrix</b>			<b>WATER</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Bromomethane			Not detected		5.0
Carbon tetrachloride			Not detected		5.0
Chlorobenzene			Not detected		5.0
Chloroethane			Not detected		5.0
Chloroform			Not detected		5.0
Chloromethane			Not detected		5.0
cis-1,2-Dichloroethylene			Not detected		5.0
cis-1,3-Dichloropropylene			Not detected		5.0
Dibromochloromethane			Not detected		5.0
Dibromomethane			Not detected		5.0
Dichlorodifluoromethane			Not detected		5.0
Ethylbenzene			Not detected		5.0
Hexachlorobutadiene			Not detected		5.0
Isopropylbenzene			Not detected		5.0
Methylene chloride			3	JB	10.0
MTBE			Not detected		5.0
Naphthalene			Not detected		5.0
n-Butylbenzene			Not detected		5.0
n-Propylbenzene			Not detected		5.0
o-Xylene			Not detected		5.0
p- & m-Xylenes			Not detected		5.0
p-Isopropyltoluene			Not detected		5.0
sec-Butylbenzene			Not detected		5.0
Styrene			Not detected		5.0
tert-Butylbenzene			Not detected		5.0
Tetrachloroethylene			Not detected		5.0
Toluene			Not detected		5.0
trans-1,2-Dichloroethylene			Not detected		5.0
trans-1,3-Dichloropropylene			Not detected		5.0
Trichloroethylene			Not detected		5.0
Trichlorofluoromethane			Not detected		5.0
Vinyl chloride			Not detected		5.0

<b>Client Sample ID</b>			<b>SED1</b>		
<b>York Sample ID</b>			<b>10010484-29</b>		
<b>Matrix</b>			<b>SOIL</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		13
1,1,1-Trichloroethane			Not detected		13
1,1,2,2-Tetrachloroethane			Not detected		13
1,1,2-Trichloroethane			Not detected		13
1,1-Dichloroethane			Not detected		13
1,1-Dichloroethylene			Not detected		13
1,1-Dichloropropylene			Not detected		13
1,2,3-Trichlorobenzene			Not detected		13
1,2,3-Trichloropropane			Not detected		13

<b>Client Sample ID</b>			<b>SED1</b>		
<b>York Sample ID</b>			<b>10010484-29</b>		
<b>Matrix</b>			<b>SOIL</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
1,2,4-Trichlorobenzene			Not detected		13
1,2,4-Trimethylbenzene			Not detected		13
1,2-Dibromo-3-chloropropane			Not detected		13
1,2-Dibromoethane			Not detected		13
1,2-Dichlorobenzene			Not detected		13
1,2-Dichloroethane			Not detected		13
1,2-Dichloropropane			Not detected		13
1,3,5-Trimethylbenzene			Not detected		13
1,3-Dichlorobenzene			Not detected		13
1,3-Dichloropropane			Not detected		13
1,4-Dichlorobenzene			Not detected		13
2,2-Dichloropropane			Not detected		13
2-Chlorotoluene			Not detected		13
4-Chlorotoluene			Not detected		13
Benzene			Not detected		13
Bromobenzene			Not detected		13
Bromochloromethane			Not detected		13
Bromodichloromethane			Not detected		13
Bromoform			Not detected		13
Bromomethane			Not detected		13
Carbon tetrachloride			Not detected		13
Chlorobenzene			Not detected		13
Chloroethane			Not detected		13
Chloroform			Not detected		13
Chloromethane			Not detected		13
cis-1,2-Dichloroethylene			Not detected		13
cis-1,3-Dichloropropylene			Not detected		13
Dibromochloromethane			Not detected		13
Dibromomethane			Not detected		13
Dichlorodifluoromethane			Not detected		13
Ethylbenzene			Not detected		13
Hexachlorobutadiene			Not detected		13
Isopropylbenzene			Not detected		13
Methylene chloride			12	JB	25
MTBE			Not detected		13
Naphthalene			Not detected		13
n-Butylbenzene			Not detected		13
n-Propylbenzene			Not detected		13
o-Xylene			Not detected		13
p- & m-Xylenes			Not detected		13
p-Isopropyltoluene			Not detected		13
sec-Butylbenzene			Not detected		13
Styrene			Not detected		13
tert-Butylbenzene			Not detected		13
Tetrachloroethylene			Not detected		13

<b>Client Sample ID</b>			<b>SED1</b>		
<b>York Sample ID</b>			<b>10010484-29</b>		
<b>Matrix</b>			<b>SOIL</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Toluene			Not detected		13
trans-1,2-Dichloroethylene			Not detected		13
trans-1,3-Dichloropropylene			Not detected		13
Trichloroethylene			Not detected		13
Trichlorofluoromethane			Not detected		13
Vinyl chloride			Not detected		13
Total Solids	SM 2540B	%	79.2	---	1.0

<b>Client Sample ID</b>			<b>SED2</b>		
<b>York Sample ID</b>			<b>10010484-30</b>		
<b>Matrix</b>			<b>SOIL</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
<b>Volatiles, 8260 List</b>	SW846-8260	ug/Kg	---	---	---
1,1,1,2-Tetrachloroethane			Not detected		14
1,1,1-Trichloroethane			Not detected		14
1,1,2,2-Tetrachloroethane			Not detected		14
1,1,2-Trichloroethane			Not detected		14
1,1-Dichloroethane			Not detected		14
1,1-Dichloroethylene			Not detected		14
1,1-Dichloropropylene			Not detected		14
1,2,3-Trichlorobenzene			Not detected		14
1,2,3-Trichloropropane			Not detected		14
1,2,4-Trichlorobenzene			Not detected		14
1,2,4-Trimethylbenzene			Not detected		14
1,2-Dibromo-3-chloropropane			Not detected		14
1,2-Dibromoethane			Not detected		14
1,2-Dichlorobenzene			Not detected		14
1,2-Dichloroethane			Not detected		14
1,2-Dichloropropane			Not detected		14
1,3,5-Trimethylbenzene			Not detected		14
1,3-Dichlorobenzene			Not detected		14
1,3-Dichloropropane			Not detected		14
1,4-Dichlorobenzene			Not detected		14
2,2-Dichloropropane			Not detected		14
2-Chlorotoluene			Not detected		14
4-Chlorotoluene			Not detected		14
Benzene			Not detected		14
Bromobenzene			Not detected		14
Bromochloromethane			Not detected		14
Bromodichloromethane			Not detected		14
Bromoform			Not detected		14
Bromomethane			Not detected		14
Carbon tetrachloride			Not detected		14
Chlorobenzene			Not detected		14
Chloroethane			Not detected		14
Chloroform			Not detected		14

<b>Client Sample ID</b>			<b>SED2</b>		
<b>York Sample ID</b>			<b>10010484-30</b>		
<b>Matrix</b>			<b>SOIL</b>		
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>
Chloromethane			Not detected		14
cis-1,2-Dichloroethylene			Not detected		14
cis-1,3-Dichloropropylene			Not detected		14
Dibromochloromethane			Not detected		14
Dibromomethane			Not detected		14
Dichlorodifluoromethane			Not detected		14
Ethylbenzene			Not detected		14
Hexachlorobutadiene			Not detected		14
Isopropylbenzene			Not detected		14
Methylene chloride			10	JB	27
MTBE			Not detected		14
Naphthalene			Not detected		14
n-Butylbenzene			Not detected		14
n-Propylbenzene			Not detected		14
o-Xylene			Not detected		14
p- & m-Xylenes			Not detected		14
p-Isopropyltoluene			Not detected		14
sec-Butylbenzene			Not detected		14
Styrene			Not detected		14
tert-Butylbenzene			Not detected		14
Tetrachloroethylene			Not detected		14
Toluene			Not detected		14
trans-1,2-Dichloroethylene			Not detected		14
trans-1,3-Dichloropropylene			Not detected		14
Trichloroethylene			Not detected		14
Trichlorofluoromethane			Not detected		14
Vinyl chloride			Not detected		14
Total Solids	SM 2540B	%	73.9	---	1.0

**Units Key:** For Waters/Liquids: mg/L = ppm ; ug/L = ppb

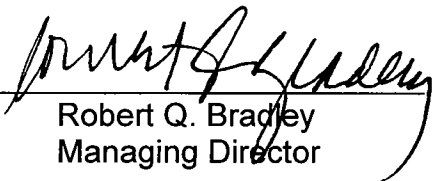
For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Report Date: 1/25/2010  
Client Project ID: AC Middletown  
York Project No.: 10010484

**Notes for York Project No. 10010484**

1. The "RL" is the REPORTING LIMIT and is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This REPORTING LIMIT is based upon the lowest standard utilized for 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.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.
8. Other attachments to this report, including Chain-of-custody documentation and Case narratives are hereby made a part of this report.

Approved By: \_\_\_\_\_

  
Robert Q. Bradley  
Managing Director

Date: 1/25/2010

**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. 10010484

[illegible]



# Field Chain-of-Custody Record

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York Project No. 10010484

<b>YOUR INFORMATION</b> MID-HUDSON GEOSCIENCES 1003 N.Y. ROUTE 44/55 P.O. BOX 332 CLINTONDALE, NY 12515-0332 Phone No. (845) 883-5866 Contact Person: Kathie Beinkafner Mail Address: COCKDOCTOR@optonline.net		<b>Report To:</b> Company: American Cleaners Address: 360 Route 211E Middle town, NY 10940 Phone: (845) 343-0111 x122 Attention: Erez Halevan E-Mail Address: EREZ19@aol.com		<b>Invoice To:</b> Company: American Cleaners Address: 360 Route 211E Middle town, NY 10940 Phone: (845) 343-0111 x122 Attention: Erez Halevan E-Mail Address: EREZ19@aol.com		<b>YOUR PROJECT ID</b> AC Middle town 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 Package <input checked="" type="checkbox"/> Electronic Deliverables: <input type="checkbox"/> EDD (Specify Type) <input type="checkbox"/> Excel <input type="checkbox"/>	
---	--	--	--	---	--	--	--	--	--	---	--

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

Katherine G. Beinkafner  
 Samples Collected/Authorized by (Signature)  
 Katherine J. Beinkafner, PhD, CPG  
 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

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below										Container Description(s)
MW22	01/15/10	GW	8260 full + MTBE										3 40 ml vials
T9	01/16/10	GW	8260 full + MTBE										3 40 ml vials
T8	01/16/10	GW	8260 full + MTBE										3 40 ml vials
MW21	01/16/10	GW	8260 full + MTBE										3 40 ml vials
MW26	01/16/10	GW	8260 full + MTBE										3 40 ml vials
MW26 Matrix Spike	01/16/10	GW	8260 full + MTBE										3 40 ml vials
MW26 Matrix Spike Duplicate 01/16/10	01/16/10	GW	8260 full + MTBE										3 40 ml vials
MW25	01/16/10	GW	8260 full + MTBE										3 40 ml vials
MW3	01/16/10	GW	8260 full + MTBE										3 40 ml vials
MW7	01/16/10	GW	8260 full + MTBE										3 40 ml vials

<b>Comments</b> Chemical of concern Tetra chloro ethylene (PCE) see previous concentrations on separate page		Preservation Check those Applicable 4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> VALS MeOH <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> O <input type="checkbox"/> NaOH <input type="checkbox"/> Other <input type="checkbox"/>		Temperature on Receipt 3.8 °C	
Samples Relinquished By Katherine Beinkafner 01/16/10 Date/Time 13:20		Samples Received By P. Grace 1/18/10 Date/Time 15:45		Samples Relinquished By Date/Time	

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

# Field Chain-of-Custody Record

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York Project No. 10010484

<b>YOUR Information</b> MID-HUDSON GEOSCIENCES 1003 N.Y. ROUTE 44/55 P.O. BOX 332 CLINTONDALE, NY 12515-0332 Phone No. (845) 883-5866 Kathie Beinkafner Mail Address: COCKDOCTOR@optonline.net		<b>Report To:</b> Company: <u>Summers</u> Address: <u>360 Route 211E</u> <u>Middle town, NY 10940</u> Phone: <u>(845) 343-0111/122</u> Attention: <u>Erez Haleviah</u> E-Mail Address: <u>EREZ19@aol.com</u>		<b>Invoice To:</b> Company: <u>American Cleaners</u> Address: <u>360 Route 211E</u> <u>Middle town, NY 10940</u> Phone: <u>(845) 343-0111/122</u> Attention: <u>Erez Haleviah</u> E-Mail Address: <u>EREZ19@aol.com</u>		<b>YOUR Project ID</b> <u>AC Middle town</u> <u>Purchase Order No.</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"/> 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 Package <input checked="" type="checkbox"/> Electronic Deliverables: <input type="checkbox"/> EDD (Specify Type) <input type="checkbox"/> Excel <input type="checkbox"/>					
<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>Volatiles</b> 8260 full <input checked="" type="checkbox"/> 624 STARS list BTEX MTBE <input checked="" type="checkbox"/> TCL list TAGM list CT RCP list Arom. only Halog. only App. IX list 8021B list		<b>Semi-Vols.</b> 8270 or 625 STARS list BN Only Acids Only PAH list TAGM list CT RCP list TCL list NIDEF list App. IX list SPL Par TCLP 8021B list		<b>Metals</b> RCRA8 PPI3 list TAL CT15 list TAGM list NIDEF list Total Dissolved TCLP Herb Chlordane 608 Pest SPL or TCLP		<b>Misc. Org.</b> TPH GRO TPH DRO CT ETPH NY 310-13 TPH 1664 Air TO14A 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 Baseline Part 360 Extended Part 360 Sewer NYSD EPCover TAGM		<b>Common Miscellaneous Parameters</b> Nitrate Nitrite TKN Flash Point Sieve Anal. Heterotrophs TOX BTU/lb. Aquatic Tox. TOC F.O.G. pH TDS TPH 1664 MBAS		<b>Special Instructions</b> Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	
<b>Choose Analyses Needed from the Menu Above and Enter Below</b>															
<b>Sample Identification</b>		<b>Date Sampled</b>		<b>Sample Matrix</b>		<b>Container Description(s)</b>									
MW6		01/16/10		GW		3 40ml vials									
MW5		01/16/10		GW		3 40ml vials									
MW2		01/17/10		GW		3 40ml vials									
MW30		01/17/10		GW		3 40ml vials									
MW4		01/17/10		GW		3 40ml vials									
MW18		01/17/10		GW		3 40ml vials									
SW1		01/15/10		Surface Storm Drainage		3 40ml vials									
SW2		01/15/10		Surface Storm Drainage		3 40ml vials									
TRIP BLANK		01/14/10		Distilled Lab Water		3 40ml vials									
EQUIPMENT BLANK		01/16/10		Distilled Water		3 40ml vials									
<b>Preservation</b> 4°C _____ Frozen _____ HCl VIALS _____ MeOH _____ HNO <sub>3</sub> _____ NaOH _____ Check those Applicable															
<b>Comments</b> Chemical of Concern Tetrachloroethylene (PCE) see previous concentrations on separate page															
<b>Temperature on Receipt</b> 3.8 °C															
<b>Samples Relinquished By</b> <u>Katharine J. Beinkafner</u> <u>01/18/10</u> <u>13:20</u> <b>Date/Time</b> <b>Samples Received By</b> <u>P. Grace</u> <u>1/18/10</u> <u>1545</u> <b>Date/Time</b> <b>Samples Relinquished By</b> _____ <b>Date/Time</b> _____ <b>Samples Received in LAB by</b> _____ <b>Date/Time</b> _____															

IN SMALL BOX

# Field Chain-of-Custody Record

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York Project No. 10010484

<b>YOUR Information</b> MID-HUDSON GEOSCIENCES 1003 N.Y. ROUTE 44/55 P.O. BOX 332 CLINTONDALE, NY 12515-0332 Phone No. <u>(845) 883-5866</u> Contact Person: <u>Kathie Beinkafner</u> E-Mail Address: <u>cockdoctor@optonline.net</u>	<b>Report To:</b> Company: <u>American Cleaners</u> Address: <u>360 Route 211E</u> <u>Middle town, NY 10940</u> Phone: <u>(845) 343-0111/122</u> Attention: <u>Erez Halevan</u> E-Mail Address: <u>EREZ19@aol.com</u>	<b>Invoice To:</b> Company: <u>American Cleaners</u> Address: <u>360 Route 211E</u> <u>Middle town, NY 10940</u> Phone: <u>(845) 343-0111/122</u> Attention: <u>Erez Halevan</u> E-Mail Address: <u>EREZ19@aol.com</u>	<b>YOUR Project ID</b> <u>AC Middle town</u> <b>Purchase Order No.</b> <u>N/A</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"/> Standard (5-7 Days) <input checked="" type="checkbox"/> Excel	<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 Package <input checked="" type="checkbox"/> <i>Electronic Deliverables:</i> EDD (Specify Type) <input type="checkbox"/>
<b>Special Instructions</b> Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>					
<b>Common Miscellaneous Parameters</b> Full Lists Ph.Poll. <input type="checkbox"/> TCL DRO <input type="checkbox"/> TAL MeCN <input type="checkbox"/> Full TCLP <input type="checkbox"/> Full App. IX <input type="checkbox"/> Part 360 Routine <input type="checkbox"/> Part 360 Baseline <input type="checkbox"/> Part 360 Expanded <input type="checkbox"/> Part 360 Volatiles <input type="checkbox"/> NYCDEP Sewer <input type="checkbox"/> NYCDEP pH <input type="checkbox"/> MBAS <input type="checkbox"/> TPH-1664 <input type="checkbox"/>					
<b>Container Description(s)</b> 202 clear Wm jan 202 clear Wm jan					
<b>Choose Analyses Needed from the Menu Above and Enter Below</b>					
<b>Sample Identification</b> SED 1	<b>Date Sampled</b> 01/15/10	<b>Sample Matrix</b> Surface storm drainage sediments	<b>8260 full + mTBE</b>		
<b>SED 2</b>	<b>01/15/10</b>	<b>Surface storm drainage sediments</b>	<b>8260 full + mTBE</b>		
<b>Comments</b> Chemical of concern Tetrachloroethylene (PCE) see previous concern notations on separate page		<b>Preservation</b> Check those Applicable 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"/>			
<b>Temperature on Receipt</b> 3.8 °C		<b>Samples Relinquished By</b> Date/Time 1/18/10 1545			
<b>Samples Relinquished By</b> Date/Time 1/18/10 1545		<b>Samples Received By</b> Date/Time 1/18/10 1545			

in Small Box

PCE =  
chemical of  
concern  
↓ ug/l  
previous sampling results

Dimensions of Monitoring Wells  
American Cleaners Middletown, NY  
prepared by Mid-Hudson Geosciences, January 18, 2010

Well Identification		Date of Construction	Diameter (inches)	Total Depth (Feet)	Screen Interval (Feet)
<b>OLD WELLS</b>					
MW1B	ND	HRP	2	7.6	
MW4	6J	HRP	4	16?	
MW2	1100J	HRP	2	8.4	
MW5	4000J	ERL	4	16.4	
MW6	530J	ERL	4	16.8	
MW7	1100	ERL	4	16.4	
MW3	1700J	HRP	2	10.2	
StormWater	ND, not sampled this time		2	12	7-12
<b>T-WELLS</b>					
T1	2J PCE	Nov-Dec 2005	1	9.7	5-10
<del>T2</del>	not sampled this time		1	19	9-19
T3	870 PCE		1	20	10-20
T4	1000 PCE		1	20	10-20
T5	1700 PCE		1	20	10-20
T6	ND		1	19	9-19
T7	64 DCE		1	18	8-18
T8	not sampled previously		1	18	8-18
T9	ND		1	20	10-10
<b>NEW WELLS</b>					
MW21	upgradient	110909	1	5.6	3.6-5.6
MW22	near 380 & 1000	111009	1	16 from TOC	11-16 from TOC
MW24	deep & lateral,approaching old gas station	11/09	1	24	14-24
MW25	Close to source & MW3 = 1700J	11/09	1	15.5?	
MW26	Close to source & MW3 = 1700J	11/09	1	14?	
MW28	downgradient from T5 = 1700	11/09	1	14.5	9.5-14.5
MW31	deep & lateral, approaching old gas station	11/09	1	20? 24?	14-24
MW30	near MW2 =1100J	110909	1	8.6	3.6-8.6

most locations are in parking lots  
or islands in parking lots

# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 10/17/2012  
**Client Project ID: American Cleaners Middletown VES**  
York Project (SDG) No.: 12J0322

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 10/17/2012  
Client Project ID: American Cleaners Middletown VES  
York Project (SDG) No.: 12J0322

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

## 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 08, 2012 and listed below. The project was identified as your project: **American Cleaners Middletown VES**.

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.

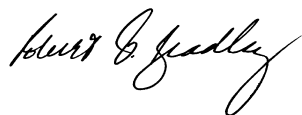
Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
12J0322-01	VES 100712 York Canister # 11	Soil Vapor	10/07/2012	10/08/2012

## General Notes for York Project (SDG) No.: 12J0322

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:



Robert Q. Bradley  
Executive Vice President / Laboratory Director

Date: 10/17/2012

**YORK**

### Sample Information

**Client Sample ID:** VES 100712 York Canister # 11

**York Sample ID:** 12J0322-01

York Project (SDG) No.

12J0322

Client Project ID

American Cleaners Middletown VES

Matrix

Soil Vapor

Collection Date/Time

October 7, 2012 3:00 pm

Date Received

10/08/2012

#### Volatile Organics, EPA TO15 Full List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	2.6		ug/m³	0.18	1.0	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.31	1.3	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.10	1.4	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.26	1.0	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.091	0.76	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.11	0.74	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.31	1.4	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.11	4.6	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.4	1.4	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.28	1.1	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.18	0.76	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.19	0.86	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.22	1.3	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.12	1.8	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
106-99-0	1,3-Butadiene	ND		ug/m³	0.12	0.81	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.20	1.1	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.25	1.1	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
123-91-1	1,4-Dioxane	ND		ug/m³	0.61	6.7	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
78-93-3	2-Butanone	2.4		ug/m³	0.22	0.55	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
591-78-6	2-Hexanone	ND		ug/m³	0.42	1.5	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.28	0.77	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
67-64-1	Acetone	10		ug/m³	0.14	0.44	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
71-43-2	Benzene	2.2		ug/m³	0.090	0.60	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
100-44-7	Benzyl chloride	ND		ug/m³	0.12	0.97	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
75-27-4	Bromodichloromethane	2.9		ug/m³	0.28	1.2	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
75-25-2	Bromoform	ND		ug/m³	0.35	1.9	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
74-83-9	Bromomethane	ND		ug/m³	0.087	0.73	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
75-15-0	Carbon disulfide	1.5		ug/m³	0.070	0.58	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
56-23-5	Carbon tetrachloride	ND		ug/m³	0.14	0.59	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
108-90-7	Chlorobenzene	ND		ug/m³	0.15	0.86	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
75-00-3	Chloroethane	ND		ug/m³	0.059	0.49	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
67-66-3	Chloroform	11		ug/m³	0.14	0.91	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
74-87-3	Chloromethane	ND		ug/m³	0.12	0.39	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
156-59-2	cis-1,2-Dichloroethylene	35		ug/m³	0.13	0.74	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD

### Sample Information

**Client Sample ID:** VES 100712 York Canister # 11

**York Sample ID:** 12J0322-01

York Project (SDG) No.  
12J0322

Client Project ID  
American Cleaners Middletown VES

Matrix  
Soil Vapor

Collection Date/Time  
October 7, 2012 3:00 pm

Date Received  
10/08/2012

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.21	0.85	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
110-82-7	Cyclohexane	3.1		ug/m <sup>3</sup>	0.077	0.64	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.5	1.5	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	0.23	0.92	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
141-78-6	Ethyl acetate	ND		ug/m <sup>3</sup>	0.17	0.67	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
100-41-4	Ethyl Benzene	1.1		ug/m <sup>3</sup>	0.15	0.81	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	0.36	2.0	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
67-63-0	Isopropanol	5.7		ug/m <sup>3</sup>	0.16	0.46	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.76	0.76	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.081	0.67	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
75-09-2	Methylene chloride	1.2	B	ug/m <sup>3</sup>	0.16	0.65	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
142-82-5	n-Heptane	1.1		ug/m <sup>3</sup>	0.092	0.77	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
110-54-3	n-Hexane	2.2		ug/m <sup>3</sup>	0.079	0.66	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
95-47-6	o-Xylene	1.8		ug/m <sup>3</sup>	0.15	0.81	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
1330-20-7P/M	p- & m- Xylenes	3.6		ug/m <sup>3</sup>	0.28	0.81	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
622-96-8	p-Ethyltoluene	ND		ug/m <sup>3</sup>	0.17	4.6	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
115-07-01	Propylene	ND		ug/m <sup>3</sup>	0.15	0.32	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.14	0.80	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
127-18-4	Tetrachloroethylene	1800		ug/m <sup>3</sup>	3.8	32	45.975	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 16:47	TD
109-99-9	Tetrahydrofuran	2.0		ug/m <sup>3</sup>	0.14	0.55	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
108-88-3	Toluene	4.2		ug/m <sup>3</sup>	0.17	0.70	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.089	0.74	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.15	0.85	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
79-01-6	Trichloroethylene	33		ug/m <sup>3</sup>	0.12	0.50	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
75-69-4	Trichlorofluoromethane (Freon 11)	1.2		ug/m <sup>3</sup>	0.063	1.1	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.099	1.3	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.11	0.96	1.839	EPA Compendium TO-15	10/15/2012 03:00	10/16/2012 06:08	TD
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: p-Bromofluorobenzene	97.1 %	70-130								



## Analytical Batch Summary

**Batch ID:** BJ20760

**Preparation Method:** EPA TO15 PREP

**Prepared By:** TD

YORK Sample ID	Client Sample ID	Preparation Date
12J0322-01	VES 100712 York Canister # 11	10/15/12
BJ20760-BLK1	Blank	10/15/12
BJ20760-BS1	LCS	10/15/12

**Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20760 - EPA TO15 PREP**

**Blank (BJ20760-BLK1)**

Prepared: 10/15/2012 Analyzed: 10/16/2012

Vinyl Chloride	ND	0.52	ug/m <sup>3</sup>
Vinyl acetate	ND	0.72	"
Trichloroethylene	ND	0.27	"
trans-1,3-Dichloropropylene	ND	0.46	"
trans-1,2-Dichloroethylene	ND	0.40	"
Toluene	ND	0.38	"
Tetrahydrofuran	ND	0.30	"
Tetrachloroethylene	ND	0.69	"
Styrene	ND	0.43	"
Propylene	ND	0.18	"
p-Ethyltoluene	ND	2.5	"
p- & m- Xylenes	ND	0.44	"
o-Xylene	ND	0.44	"
n-Hexane	ND	0.36	"
n-Heptane	ND	0.42	"
Methylene chloride	0.39	0.35	"
Methyl tert-butyl ether (MTBE)	ND	0.37	"
4-Methyl-2-pentanone	ND	0.42	"
Isopropanol	ND	0.25	"
Hexachlorobutadiene	ND	1.1	"
Ethyl Benzene	ND	0.44	"
Ethyl acetate	ND	0.37	"
Cyclohexane	ND	0.35	"
cis-1,3-Dichloropropylene	ND	0.46	"
cis-1,2-Dichloroethylene	ND	0.40	"
Chloromethane	ND	0.21	"
Chloroform	ND	0.50	"
Chloroethane	ND	0.27	"
Carbon tetrachloride	ND	0.32	"
Carbon disulfide	ND	0.32	"
Bromomethane	ND	0.39	"
Bromoform	ND	1.1	"
Bromodichloromethane	ND	0.63	"
Benzyl chloride	ND	0.53	"
Benzene	ND	0.32	"
Acetone	ND	0.24	"
2-Hexanone	ND	0.83	"
2-Butanone	ND	0.30	"
1,4-Dioxane	ND	3.7	"
1,4-Dichlorobenzene	ND	0.61	"
1,3-Dichlorobenzene	ND	0.61	"
1,3-Butadiene	ND	0.44	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2-Dichlorotetrafluoroethane	ND	0.71	"
1,2-Dichloropropane	ND	0.47	"
1,2-Dichloroethane	ND	0.41	"
1,2-Dichlorobenzene	ND	0.61	"
1,2,4-Trimethylbenzene	ND	2.5	"
1,2,4-Trichlorobenzene	ND	0.75	"
1,1-Dichloroethylene	ND	0.40	"
1,1-Dichloroethane	ND	0.41	"
Trichlorofluoromethane (Freon 11)	ND	0.57	"
1,1,2-Trichloroethane	ND	0.55	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.78	"

**Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20760 - EPA TO15 PREP**

**Blank (BJ20760-BLK1)**

Prepared: 10/15/2012 Analyzed: 10/16/2012

1,1,2,2-Tetrachloroethane	ND	0.70	ug/m <sup>3</sup>								
1,1,1-Trichloroethane	ND	0.55	"								
Dichlorodifluoromethane	ND	0.50	"								
1,2-Dibromoethane	ND	0.78	"								
Dibromochloromethane	ND	0.82	"								
Methyl Methacrylate	ND	0.42	"								
Chlorobenzene	ND	0.47	"								
<i>Surrogate: p-Bromofluorobenzene</i>	<i>8.65</i>		<i>ppbv</i>	<i>10.0</i>		<i>86.5</i>	<i>70-130</i>				

**LCS (BJ20760-BS1)**

Prepared: 10/15/2012 Analyzed: 10/16/2012

Vinyl Chloride	11.7		ppbv	10.1		116	70-130				
Vinyl acetate	6.34		"	9.70		65.4	58.1-135				
Trichloroethylene	10.3		"	10.2		101	70-130				
trans-1,3-Dichloropropylene	9.11		"	9.90		92.0	62-135				
trans-1,2-Dichloroethylene	9.95		"	9.50		105	58.3-130				
Toluene	11.5		"	10.8		106	64.9-126				
Tetrahydrofuran	11.3		"	10.2		110	44.6-146				
Tetrachloroethylene	11.0		"	10.5		105	70-130				
Styrene	12.9		"	10.7		120	66.4-132				
Propylene	12.4		"	11.0		113	62.4-150				
p-Ethyltoluene	11.9		"	10.4		114	73.8-146				
p- & m- Xylenes	23.5		"	21.0		112	56.6-136				
o-Xylene	12.6		"	10.8		117	67.8-133				
n-Hexane	10.4		"	10.3		101	59.7-130				
n-Heptane	11.2		"	10.4		107	62.3-134				
Methylene chloride	8.94		"	10.0		89.4	62.6-130				
Methyl tert-butyl ether (MTBE)	11.4		"	10.2		112	60.7-139				
4-Methyl-2-pentanone	7.96		"	10.0		79.6	64.5-158				
Isopropanol	8.78		"	9.90		88.7	60-150				
Hexachlorobutadiene	14.0		"	11.0		127	61.2-150				
Ethyl Benzene	11.6		"	10.7		109	68.4-125				
Ethyl acetate	12.7		"	10.0		127	40.6-150				
Cyclohexane	11.1		"	10.2		108	60.4-127				
cis-1,3-Dichloropropylene	10.4		"	10.7		97.7	65.5-129				
cis-1,2-Dichloroethylene	10.4		"	10.5		99.1	51.3-118				
Chloromethane	11.7		"	10.1		116	64.9-130				
Chloroform	10.1		"	10.0		101	65.1-130				
Chloroethane	11.8		"	10.1		116	52.1-131				
Carbon tetrachloride	10.2		"	10.1		101	70-130				
Carbon disulfide	10.4		"	10.0		104	61.8-111				
Bromomethane	9.63		"	10.2		94.4	60.1-140				
Bromoform	12.4		"	10.5		119	58.7-150				
Bromodichloromethane	10.6		"	10.2		104	65.3-127				
Benzyl chloride	7.18		"	10.2		70.4	62.5-150				
Benzene	10.8		"	10.4		103	69.5-130				
Acetone	9.75		"	10.0		97.5	55.3-133				
2-Hexanone	6.31		"	10.1		62.5	52-150				
2-Butanone	8.80		"	10.0		88.0	28.5-154				
1,4-Dioxane	7.39		"	10.2		72.5	50-150				
1,4-Dichlorobenzene	12.2		"	10.6		115	62.5-139				
1,3-Dichlorobenzene	13.2		"	10.2		129	71.9-153				
1,3-Butadiene	12.6		"	10.5		120	66.7-127				
1,3,5-Trimethylbenzene	12.4		"	10.6		117	65-152				
1,2-Dichlorotetrafluoroethane	11.3		"	10.1		112	63.3-129				

**Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20760 - EPA TO15 PREP**

**LCS (BJ20760-BS1)**

Prepared: 10/15/2012 Analyzed: 10/16/2012

1,2-Dichloropropane	10.7		ppbv	10.7		99.9	21.3-152				
1,2-Dichloroethane	10.8		"	10.4		104	51.2-124				
1,2-Dichlorobenzene	13.3		"	10.6		126	63.7-148				
1,2,4-Trimethylbenzene	12.0		"	10.7		112	67.9-152				
1,2,4-Trichlorobenzene	17.2		"	11.0		157	58-147	High Bias			
1,1-Dichloroethylene	10.3		"	9.80		105	58.1-130				
1,1-Dichloroethane	10.4		"	10.2		102	63.3-130				
Trichlorofluoromethane (Freon 11)	10.4		"	10.5		98.8	56-132				
1,1,2-Trichloroethane	11.3		"	10.7		106	66-127				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.85		"	9.70		102	60.2-125				
1,1,2,2-Tetrachloroethane	12.7		"	10.8		118	63.7-132				
1,1,1-Trichloroethane	10.7		"	10.4		103	58.2-126				
Dichlorodifluoromethane	10.5		"	10.0		105	62.8-133				
1,2-Dibromoethane	10.8		"	10.6		102	70-130				
Dibromochloromethane	11.7		"	10.6		110	70-130				
Methyl Methacrylate	10.3		"	10.1		102	70-130				
Chlorobenzene	11.4		"	10.8		105	67.6-122				
Surrogate: <i>p</i> -Bromofluorobenzene	10.8		"	10.0		108	70-130				

**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.
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.
ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
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.

**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 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 unless superseded by written contract.

York Project No. 1250322

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type/Deliverables	
MID-HUDSON GEOSCIENCES 1003 N.Y. ROUTE 44/55 P.O. BOX 332 CLINTONDALE, NY 12515-0332		Company: <u>American Cleaners</u> Address: <u>360 Rt 211 East</u> <u>Middle town, NY 10948</u> Phone No: <u>845 343 0111 x102</u> Attention: <u>Mr. Erez Halevy</u> E-Mail Address: <u>erez@190gmail.com</u>		Company: <u>American Cleaners</u> Address: <u>360 Rt 211 East</u> <u>Middle town, NY 10948</u> Phone No: <u>845 343 0111 x102</u> Attention: <u>Mr. Erez Halevy</u> E-Mail Address: <u>erez@190gmail.com</u>		Purchase Order No. <u>10948</u>		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"/>		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"/> Electronic Deliverables: <input type="checkbox"/> EDD (Specify Type) <input checked="" 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 AL - 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 <input checked="" type="checkbox"/> EPA TO-14A List NYSDEC VI list Tentatively Identified Compounds		Detection Limits Required $\leq 1 \mu\text{g}/\text{m}^3$ <input checked="" type="checkbox"/> NYSDEC VI Limits <input checked="" type="checkbox"/> (VI weight adjustment) NJDEP low level <input type="checkbox"/> Routine Survey <input type="checkbox"/> Other <input type="checkbox"/>		Special Instructions			
Name (printed) <u>Katherine J. BeinKafner</u>		Date Sampled <u>10/07/12</u>		AIR Matrix <u>AS</u>		Choose Analyses Needed from the Menu Above and Enter Below Before Sampling (in. Hg) After Sampling (in. Hg) <u>-31</u> <u>-4.5</u>		Sampling Media <input checked="" type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag			
Sample Identification <u>VES 100712</u> <u>York canister #11</u>											
Comments Chem of Concern: <u>PCE/perc</u>		Samples Relinquished By <u>Katherine BeinKafner</u> Date/Time <u>10/8/12 9AM</u>		Samples Received By <u>Charlie C</u> Date/Time <u>10/8/12 10:55</u>		Samples Relinquished By <u>Charlie C</u> Date/Time <u>10/8/12 1610</u>		Samples Received in LAB by <u>Charlie C</u> Date/Time <u>10/8/12 1610</u>			

# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 12/10/2012  
**Client Project ID: American Cleaners Middletown VES**  
York Project (SDG) No.: 12L0054

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 12/10/2012  
Client Project ID: American Cleaners Middletown VES  
York Project (SDG) No.: 12L0054

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

## 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 03, 2012 and listed below. The project was identified as your project: **American Cleaners Middletown VES**.

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>
12L0054-01	VES 112912	Soil Vapor	11/29/2012	12/03/2012

## General Notes for York Project (SDG) No.: 12L0054

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:



Robert Q. Bradley  
Laboratory Director

Date: 12/10/2012

**YORK**



### Sample Information

**Client Sample ID:** VES 112912

**York Sample ID:** 12L0054-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0054

American Cleaners Middletown VES

Soil Vapor

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	9.7	9.7	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	13	13	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
79-01-6	Trichloroethylene	160		ug/m <sup>3</sup>	5.1	5.1	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.6	8.6	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	7.5	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
108-88-3	Toluene	ND		ug/m <sup>3</sup>	7.2	7.2	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
109-99-9	Tetrahydrofuran	ND		ug/m <sup>3</sup>	5.6	5.6	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
127-18-4	Tetrachloroethylene	20000		ug/m <sup>3</sup>	130	130	186.7	EPA Compendium TO-15	12/06/2012 09:00	12/07/2012 16:59	TD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.1	8.1	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
115-07-01	Propylene	ND		ug/m <sup>3</sup>	3.3	3.3	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
622-96-8	p-Ethyltoluene	ND		ug/m <sup>3</sup>	47	47	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
1330-20-7P/M	p- & m- Xylenes	ND		ug/m <sup>3</sup>	8.2	8.2	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.2	8.2	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.7	6.7	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.8	7.8	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
75-09-2	Methylene chloride	11		ug/m <sup>3</sup>	6.6	6.6	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.8	6.8	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.8	7.8	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	4.7	4.7	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	20	20	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.2	8.2	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
141-78-6	Ethyl acetate	ND		ug/m <sup>3</sup>	6.8	6.8	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.5	6.5	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.6	8.6	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
156-59-2	cis-1,2-Dichloroethylene	92		ug/m <sup>3</sup>	7.5	7.5	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.9	3.9	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.3	9.3	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.0	5.0	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	6.0	6.0	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.9	5.9	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.4	7.4	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	20	20	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	12	12	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	9.8	9.8	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD

### Sample Information

**Client Sample ID:** VES 112912

**York Sample ID:** 12L0054-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0054

American Cleaners Middletown VES

Soil Vapor

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.1	6.1	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
67-64-1	Acetone	7.2		ug/m <sup>3</sup>	4.5	4.5	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
591-78-6	2-Hexanone	ND		ug/m <sup>3</sup>	16	16	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.6	5.6	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	68	68	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	8.2	8.2	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	19	19	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	13	13	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.8	8.8	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.7	7.7	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	47	47	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	14	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	7.5	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.7	7.7	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	11	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	10	10	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	15	15	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	10	10	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.4	9.4	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	15	15	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	15	15	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.8	7.8	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.7	8.7	18.67	EPA Compendium TO-15	12/06/2012 09:00	12/06/2012 22:39	TD
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
460-00-4	Surrogate: p-Bromofluorobenzene	105 %	70-130								

## Analytical Batch Summary

**Batch ID:** BL20245

**Preparation Method:** EPA TO15 PREP

**Prepared By:** TD

YORK Sample ID	Client Sample ID	Preparation Date
12L0054-01	VES 112912	12/06/12
BL20245-BS1	LCS	12/05/12

**Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL20245 - EPA TO15 PREP**

**LCS (BL20245-BS1)**

Prepared: 12/05/2012 Analyzed: 12/06/2012

Vinyl Chloride	10.2		ppbv	10.1		101	70-130				
Vinyl acetate	4.63		"	9.70		47.7	58.1-135	Low Bias			
Trichloroethylene	9.56		"	10.2		93.7	70-130				
trans-1,3-Dichloropropylene	8.01		"	9.90		80.9	62-135				
trans-1,2-Dichloroethylene	8.94		"	9.50		94.1	58.3-130				
Toluene	11.0		"	10.8		102	64.9-126				
Tetrahydrofuran	10.6		"	10.2		104	44.6-146				
Tetrachloroethylene	10.2		"	10.5		97.0	70-130				
Styrene	12.4		"	10.7		115	66.4-132				
Propylene	11.3		"	11.0		103	62.4-150				
p-Ethyltoluene	12.5		"	10.4		120	73.8-146				
p- & m- Xylenes	23.8		"	21.0		113	56.6-136				
o-Xylene	12.5		"	10.8		115	67.8-133				
n-Hexane	10.1		"	10.3		97.8	59.7-130				
n-Heptane	10.4		"	10.4		99.6	62.3-134				
Methylene chloride	8.76		"	10.0		87.6	62.6-130				
Methyl tert-butyl ether (MTBE)	10.3		"	10.2		101	60.7-139				
4-Methyl-2-pentanone	10.2		"	10.0		102	64.5-158				
Isopropanol	6.20		"	9.90		62.6	60-150				
Hexachlorobutadiene	7.74		"	11.0		70.4	61.2-150				
Ethyl Benzene	12.1		"	10.7		113	68.4-125				
Ethyl acetate	12.5		"	10.0		125	40.6-150				
Cyclohexane	9.75		"	10.2		95.6	60.4-127				
cis-1,3-Dichloropropylene	9.46		"	10.7		88.4	65.5-129				
cis-1,2-Dichloroethylene	9.35		"	10.5		89.0	51.3-118				
Chloromethane	9.84		"	10.1		97.4	64.9-130				
Chloroform	9.34		"	10.0		93.4	65.1-130				
Chloroethane	10.7		"	10.1		106	52.1-131				
Carbon tetrachloride	8.42		"	10.1		83.4	70-130				
Carbon disulfide	8.98		"	10.0		89.8	61.8-111				
Bromomethane	8.46		"	10.2		82.9	60.1-140				
Bromoform	12.2		"	10.5		116	58.7-150				
Bromodichloromethane	10.3		"	10.2		101	65.3-127				
Benzyl chloride	6.14		"	10.2		60.2	62.5-150	Low Bias			
Benzene	9.63		"	10.4		92.6	69.5-130				
Acetone	9.47		"	10.0		94.7	55.3-133				
2-Hexanone	8.69		"	10.1		86.0	52-150				
2-Butanone	8.83		"	10.0		88.3	28.5-154				
1,4-Dioxane	11.2		"	10.2		109	50-150				
1,4-Dichlorobenzene	12.2		"	10.6		115	62.5-139				
1,3-Dichlorobenzene	11.9		"	10.2		116	71.9-153				
1,3-Butadiene	10.7		"	10.5		102	66.7-127				
1,3,5-Trimethylbenzene	12.4		"	10.6		117	65-152				
1,2-Dichlorotetrafluoroethane	9.89		"	10.1		97.9	63.3-129				
1,2-Dichloropropane	10.1		"	10.7		94.0	21.3-152				
1,2-Dichloroethane	9.85		"	10.4		94.7	51.2-124				
1,2-Dichlorobenzene	11.9		"	10.6		112	63.7-148				
1,2,4-Trimethylbenzene	12.8		"	10.7		120	67.9-152				
1,2,4-Trichlorobenzene	8.25		"	11.0		75.0	58-147				
1,1-Dichloroethylene	9.31		"	9.80		95.0	58.1-130				
1,1-Dichloroethane	9.63		"	10.2		94.4	63.3-130				
Trichlorofluoromethane (Freon 11)	9.37		"	10.5		89.2	56-132				
1,1,2-Trichloroethane	10.6		"	10.7		98.7	66-127				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.07		"	9.70		93.5	60.2-125				

## Volatile Organic Compounds by EPA Compendium TO14A/TO15 - Quality Control Data

## York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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## Batch BL20245 - EPA TO15 PREP

## LCS (BL20245-BS1)

Prepared: 12/05/2012 Analyzed: 12/06/2012

1,1,2,2-Tetrachloroethane	12.0		ppbv	10.8		111	63.7-132				
1,1,1-Trichloroethane	9.78		"	10.4		94.0	58.2-126				
Dichlorodifluoromethane	9.38		"	10.0		93.8	62.8-133				
1,2-Dibromoethane	9.81		"	10.6		92.5	70-130				
Dibromochloromethane	11.1		"	10.6		105	70-130				
Methyl Methacrylate	9.68		"	10.1		95.8	70-130				
Chlorobenzene	11.5		"	10.8		106	67.6-122				
Surrogate: <i>p</i> -Bromofluorobenzene	11.1		"	10.0		111	70-130				

### 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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ND            Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL            REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL          METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

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 MDL, with values between the MDL and the RL being "J" flagged as estimated results.

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## Field Chain-of-Custody Record - AIR

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document.

**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document.

York Project No. 12L0054

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type/Deliverables			
MID-HUDSON GEOSCIENCES 1003 N.Y. ROUTE 44/55 P.O. BOX 332 CLINTONDALE, NY 12515-0332 Phone No: 845 883 5866 Contact Person: Kathie Beinkafner E-Mail Address: kedsdoctor@optonline.net		Company: American Cleaners Address: 360 Rt 211 East Middletown, NY 10940 Phone: 845 343 0111 x 102 Attention: Ms. Erez Halavah E-Mail Address: eerez19@gmail.com		Company: American Cleaners Address: Middletown VES Purchase Order No.		Samples from: CT NY NJ		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"/>		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 checked="" type="checkbox"/> NJDEP Reduced <input type="checkbox"/> Electronic Deliverables: <input checked="" type="checkbox"/> EDD (Specify Type) <input checked="" 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.													
Name (printed) Katherine J Beinkafner		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 <input checked="" type="checkbox"/> NYSDEC VI list Tentatively Identified Compounds		Detection Limits Required ≤ 1 ug/m³ <input checked="" type="checkbox"/> NYSDEC VI Limits <input checked="" type="checkbox"/> (VI *upper threshold) NJDEP low level <input type="checkbox"/> Routine Survey <input type="checkbox"/> Other <input type="checkbox"/>		Special Instructions					
Sample Identification York Sanister Y46 VES 11/29/12		Date Sampled 11/29/12		AIR Matrix AS		Canister Vacuum Before Sampling (in. Hg) - 30"		Canister Vacuum After Sampling (in. Hg) - 3"		Choose Analytes Needed from the Menu Above and Enter Below EPA TO-15 List		Sampling Media 6 Liter Summa canister <input checked="" type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/> 6 Liter Summa canister <input type="checkbox"/> Tedlar Bag <input type="checkbox"/>	
Comments Chemical of Concern: PCE													
Samples Relinquished By Katherine J Beinkafner 12/3/12 8 PM Date/Time Samples Relinquished By Date/Time													
Samples Received By Date/Time Samples Received in LAB by Date/Time													

# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 10/16/2012  
**Client Project ID: American Cleaners Back Door Excavation**  
York Project (SDG) No.: 12J0483

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440



Report Date: 10/16/2012  
Client Project ID: American Cleaners Back Door Excavation  
York Project (SDG) No.: 12J0483

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

## 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 12, 2012 and listed below. The project was identified as your project: **American Cleaners Back Door Excavation.**

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.

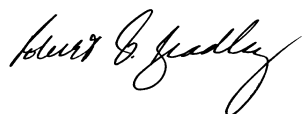
Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
12J0483-01	ACMS 20	Soil	10/11/2012	10/12/2012
12J0483-02	ACMS 21	Soil	10/11/2012	10/12/2012
12J0483-03	Trip Blank	Water	10/11/2012	10/12/2012
12J0483-04	Field Blank(Equipment)	Water	10/11/2012	10/12/2012

## General Notes for York Project (SDG) No.: 12J0483

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: 10/16/2012

Robert Q. Bradley  
Executive Vice President / Laboratory Director

**YORK**

### Sample Information

**Client Sample ID:** ACMS 20

**York Sample ID:** 12J0483-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0483

American Cleaners Back Door Excavation

Soil

October 11, 2012 3:00 pm

10/12/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.73	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.34	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.79	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.52	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.43	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.48	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.56	10	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.74	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.70	10	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.57	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	10	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.41	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.45	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.53	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.42	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.47	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.60	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.67	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.75	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	14	52	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.49	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.92	10	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.42	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.53	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
67-64-1	Acetone	ND		ug/kg dry	6.9	10	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
71-43-2	Benzene	ND		ug/kg dry	0.51	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.68	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.41	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.77	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
75-25-2	Bromoform	ND		ug/kg dry	0.49	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS

### Sample Information

**Client Sample ID:** ACMS 20

**York Sample ID:** 12J0483-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0483

American Cleaners Back Door Excavation

Soil

October 11, 2012 3:00 pm

10/12/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.51	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.51	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.58	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
67-66-3	Chloroform	ND		ug/kg dry	0.53	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.57	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.30	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.48	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.60	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.66	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.48	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.30	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.71	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.55	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.38	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.94	10	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	10	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.46	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.44	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.38	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.97	10	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.32	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.49	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
100-42-5	Styrene	ND		ug/kg dry	0.35	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.49	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
127-18-4	Tetrachloroethylene	83		ug/kg dry	0.56	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
108-88-3	Toluene	ND		ug/kg dry	0.40	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.54	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.54	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
79-01-6	Trichloroethylene	3.5	J	ug/kg dry	0.52	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.37	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	0.94	10	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.29	5.2	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.62	16	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 12:54	SS
Surrogate Recoveries		Result	Acceptance Range								

### Sample Information

**Client Sample ID:** ACMS 20

**York Sample ID:** 12J0483-01

York Project (SDG) No.

Client Project ID

Matrix

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12J0483

American Cleaners Back Door Excavation

Soil

October 11, 2012 3:00 pm

10/12/2012

#### **Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %			72.6-129						
460-00-4	Surrogate: p-Bromofluorobenzene	104 %			63.5-145						
2037-26-5	Surrogate: Toluene-d8	102 %			81.2-127						

#### **Volatile Organics, TCLP 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	5.4	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	9.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	5.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	6.0	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	6.1	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	6.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	13	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	4.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	3.7	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	11	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	4.8	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	5.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	13	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	6.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	5.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	6.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.2	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	3.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	4.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	6.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	6.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	9.6	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
95-49-8	2-Chlorotoluene	ND		ug/L	4.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
106-43-4	4-Chlorotoluene	ND		ug/L	4.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
99-87-6	4-Isopropyltoluene	ND		ug/L	21	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
71-43-2	Benzene	ND		ug/L	4.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
108-86-1	Bromobenzene	ND		ug/L	6.1	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
74-97-5	Bromochloromethane	ND		ug/L	13	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS

### Sample Information

**Client Sample ID:** ACMS 20

**York Sample ID:** 12J0483-01

York Project (SDG) No.

Client Project ID

Matrix

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12J0483

American Cleaners Back Door Excavation

Soil

October 11, 2012 3:00 pm

10/12/2012

**Volatile Organics, TCLP 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/L	6.2	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
75-25-2	Bromoform	ND		ug/L	5.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
74-83-9	Bromomethane	ND		ug/L	12	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
56-23-5	Carbon tetrachloride	ND		ug/L	10	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
108-90-7	Chlorobenzene	ND		ug/L	3.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
75-00-3	Chloroethane	ND		ug/L	7.6	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
67-66-3	Chloroform	ND		ug/L	3.6	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
74-87-3	Chloromethane	ND		ug/L	8.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	9.6	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	3.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
124-48-1	Dibromochloromethane	ND		ug/L	6.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
74-95-3	Dibromomethane	ND		ug/L	13	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	8.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
100-41-4	Ethyl Benzene	ND		ug/L	3.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	4.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
98-82-8	Isopropylbenzene	ND		ug/L	3.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	3.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
75-09-2	Methylene chloride	ND		ug/L	11	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
91-20-3	Naphthalene	ND		ug/L	5.0	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
104-51-8	n-Butylbenzene	ND		ug/L	3.2	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
103-65-1	n-Propylbenzene	ND		ug/L	5.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
95-47-6	o-Xylene	ND		ug/L	5.0	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	5.5	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
135-98-8	sec-Butylbenzene	ND		ug/L	5.2	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
100-42-5	Styrene	ND		ug/L	4.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
98-06-6	tert-Butylbenzene	ND		ug/L	4.6	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
127-18-4	Tetrachloroethylene	10	J	ug/L	5.2	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
108-88-3	Toluene	ND		ug/L	2.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	6.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	6.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
79-01-6	Trichloroethylene	ND		ug/L	5.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	9.1	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
75-01-4	Vinyl Chloride	ND		ug/L	9.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS

### Sample Information

**Client Sample ID:** ACMS 20

**York Sample ID:** 12J0483-01

York Project (SDG) No.

Client Project ID

Matrix

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12J0483

American Cleaners Back Door Excavation

Soil

October 11, 2012 3:00 pm

10/12/2012

#### Volatile Organics, TCLP 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/L	10	150	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:13	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	91.2 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	102 %		81.2-127							

#### TCLP Extraction for VOA by EPA 1311 ZHE

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		%	1.00	1.00	1	EPA SW-846 1311	10/15/2012 14:26	10/16/2012 08:42	AA

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	95.5		%	0.100	0.100	1	SM 2540G	10/15/2012 14:04	10/15/2012 14:04	JCC

### Sample Information

**Client Sample ID:** ACMS 21

**York Sample ID:** 12J0483-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0483

American Cleaners Back Door Excavation

Soil

October 11, 2012 3:00 pm

10/12/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.75	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.14	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.1	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.35	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.81	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.54	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.44	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.50	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.57	11	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.76	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.72	11	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.59	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	11	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS

### Sample Information

**Client Sample ID:** ACMS 21

**York Sample ID:** 12J0483-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0483

American Cleaners Back Door Excavation

Soil

October 11, 2012 3:00 pm

10/12/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.42	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.47	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.54	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.43	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.48	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.62	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.69	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.78	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	14	54	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.50	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.95	11	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.43	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.55	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
67-64-1	Acetone	ND		ug/kg dry	7.1	11	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
71-43-2	Benzene	ND		ug/kg dry	0.53	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.70	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.42	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.80	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
75-25-2	Bromoform	ND		ug/kg dry	0.51	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.53	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.53	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.60	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
67-66-3	Chloroform	ND		ug/kg dry	0.54	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.59	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
156-59-2	cis-1,2-Dichloroethylene	2.0	J	ug/kg dry	0.31	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.49	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.62	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.68	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.49	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.31	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.73	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.57	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.40	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS



## Sample Information

**Client Sample ID:** ACMS 21

**York Sample ID:** 12J0483-02

York Project (SDG) No.  
12J0483

Client Project ID  
American Cleaners Back Door Excavation

Matrix  
Soil

Collection Date/Time  
October 11, 2012 3:00 pm

Date Received  
10/12/2012

### Volatile Organics, 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	1.2	J	ug/kg dry	0.97	11	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.47	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.45	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.40	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.33	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.50	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
100-42-5	Styrene	ND		ug/kg dry	0.36	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.50	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
127-18-4	Tetrachloroethylene	9800		ug/kg dry	58	540	100	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 18:46	SS
108-88-3	Toluene	ND		ug/kg dry	0.41	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.56	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.56	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
79-01-6	Trichloroethylene	120		ug/kg dry	0.53	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.38	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	0.97	11	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.29	5.4	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	0.64	16	1	EPA SW846-8260B	10/15/2012 10:45	10/15/2012 13:29	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.7 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	140 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	98.8 %	81.2-127								

### Volatile Organics, TCLP 8260 List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	5.4	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	9.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	5.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	6.0	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	6.1	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	6.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	13	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	4.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	3.7	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS



### Sample Information

**Client Sample ID:** ACMS 21

**York Sample ID:** 12J0483-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0483

American Cleaners Back Door Excavation

Soil

October 11, 2012 3:00 pm

10/12/2012

**Volatile Organics, TCLP 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		ug/L	11	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	4.8	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	5.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	13	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	6.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	5.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	6.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.2	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	3.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	4.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	6.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	6.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	9.6	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
95-49-8	2-Chlorotoluene	ND		ug/L	4.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
106-43-4	4-Chlorotoluene	ND		ug/L	4.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
99-87-6	4-Isopropyltoluene	ND		ug/L	21	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
71-43-2	Benzene	ND		ug/L	4.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
108-86-1	Bromobenzene	ND		ug/L	6.1	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
74-97-5	Bromochloromethane	ND		ug/L	13	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
75-27-4	Bromodichloromethane	ND		ug/L	6.2	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
75-25-2	Bromoform	ND		ug/L	5.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
74-83-9	Bromomethane	ND		ug/L	12	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
56-23-5	Carbon tetrachloride	ND		ug/L	10	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
108-90-7	Chlorobenzene	ND		ug/L	3.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
75-00-3	Chloroethane	ND		ug/L	7.6	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
67-66-3	Chloroform	ND		ug/L	3.6	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
74-87-3	Chloromethane	ND		ug/L	8.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	9.6	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	3.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
124-48-1	Dibromochloromethane	ND		ug/L	6.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
74-95-3	Dibromomethane	ND		ug/L	13	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	8.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
100-41-4	Ethyl Benzene	ND		ug/L	3.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	4.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS

### Sample Information

**Client Sample ID:** ACMS 21

**York Sample ID:** 12J0483-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0483

American Cleaners Back Door Excavation

Soil

October 11, 2012 3:00 pm

10/12/2012

#### Volatile Organics, TCLP 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	3.9	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	3.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
75-09-2	Methylene chloride	ND		ug/L	11	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
91-20-3	Naphthalene	ND		ug/L	5.0	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
104-51-8	n-Butylbenzene	ND		ug/L	3.2	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
103-65-1	n-Propylbenzene	ND		ug/L	5.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
95-47-6	o-Xylene	ND		ug/L	5.0	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	5.5	100	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
135-98-8	sec-Butylbenzene	ND		ug/L	5.2	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
100-42-5	Styrene	ND		ug/L	4.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
98-06-6	tert-Butylbenzene	ND		ug/L	4.6	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
127-18-4	Tetrachloroethylene	130		ug/L	5.2	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
108-88-3	Toluene	ND		ug/L	2.3	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	6.5	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	6.8	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
79-01-6	Trichloroethylene	8.8	J	ug/L	5.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	9.1	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
75-01-4	Vinyl Chloride	ND		ug/L	9.7	50	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
1330-20-7	Xylenes, Total	ND		ug/L	10	150	10	EPA SW846-8260B/1311	10/16/2012 08:15	10/16/2012 15:49	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %		72.6-129							
460-00-4	Surrogate: p-Bromofluorobenzene	94.4 %		63.5-145							
2037-26-5	Surrogate: Toluene-d8	102 %		81.2-127							

#### TCLP Extraction for VOA by EPA 1311 ZHE

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		%	1.00	1.00	1	EPA SW-846 1311	10/15/2012 14:26	10/16/2012 08:42	AA

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	93.0		%	0.100	0.100	1	SM 2540G	10/15/2012 14:04	10/15/2012 14:04	JCC

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12J0483-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0483

American Cleaners Back Door Excavation

Water

October 11, 2012 3:00 pm

10/12/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12J0483-03

York Project (SDG) No.  
12J0483

Client Project ID  
American Cleaners Back Door Excavation

Matrix  
Water

Collection Date/Time  
October 11, 2012 3:00 pm

Date Received  
10/12/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 01:25	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %	72.6-129								

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12J0483-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0483

American Cleaners Back Door Excavation

Water

October 11, 2012 3:00 pm

10/12/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	96.6 %			63.5-145						
2037-26-5	Surrogate: Toluene- <i>d</i> 8	101 %			81.2-127						

### Sample Information

**Client Sample ID:** Field Blank(Equipment)

**York Sample ID:** 12J0483-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0483

American Cleaners Back Door Excavation

Water

October 11, 2012 3:00 pm

10/12/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS

### Sample Information

**Client Sample ID:** Field Blank(Equipment)

**York Sample ID:** 12J0483-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0483

American Cleaners Back Door Excavation

Water

October 11, 2012 3:00 pm

10/12/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS

### Sample Information

**Client Sample ID:** Field Blank(Equipment)

**York Sample ID:** 12J0483-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12J0483

American Cleaners Back Door Excavation

Water

October 11, 2012 3:00 pm

10/12/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA 8260B/624	10/15/2012 12:05	10/16/2012 02:02	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	95.1 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	103 %	81.2-127								

## Analytical Batch Summary

**Batch ID:** BJ20669      **Preparation Method:** % Solids Prep      **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
12J0483-01	ACMS 20	10/15/12
12J0483-02	ACMS 21	10/15/12

**Batch ID:** BJ20675      **Preparation Method:** EPA 5030B      **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
12J0483-03	Trip Blank	10/15/12
12J0483-04	Field Blank(Equipment)	10/15/12
BJ20675-BLK1	Blank	10/15/12
BJ20675-BS1	LCS	10/15/12
BJ20675-BSD1	LCS Dup	10/15/12

**Batch ID:** BJ20680      **Preparation Method:** EPA 5030B      **Prepared By:** VRL

YORK Sample ID	Client Sample ID	Preparation Date
12J0483-01	ACMS 20	10/16/12
12J0483-02	ACMS 21	10/16/12
BJ20680-BLK1	Blank	10/16/12
BJ20680-BS1	LCS	10/16/12
BJ20680-BSD1	LCS Dup	10/16/12

**Batch ID:** BJ20688      **Preparation Method:** EPA 5035B      **Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
12J0483-01	ACMS 20	10/15/12
12J0483-02	ACMS 21	10/15/12
BJ20688-BLK1	Blank	10/15/12
BJ20688-BS1	LCS	10/15/12
BJ20688-BSD1	LCS Dup	10/15/12

**Batch ID:** BJ20709      **Preparation Method:** EPA SW 846-1311 TCLP ZHE for VO      **Prepared By:** JCC

YORK Sample ID	Client Sample ID	Preparation Date
12J0483-01	ACMS 20	10/15/12
12J0483-02	ACMS 21	10/15/12



**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20675 - EPA 5030B**

**Blank (BJ20675-BLK1)**

Prepared: 10/15/2012 Analyzed: 10/16/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	50	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	10	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylene chloride	ND	10	"
Naphthalene	ND	10	"
n-Butylbenzene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
o-Xylene	ND	5.0	"
p- & m- Xylenes	ND	10	"
p-Isopropyltoluene	ND	5.0	"

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20675 - EPA 5030B**

**Blank (BJ20675-BLK1)**

Prepared: 10/15/2012 Analyzed: 10/16/2012

sec-Butylbenzene	ND	5.0	ug/L								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
Surrogate: 1,2-Dichloroethane-d4	50.0		"	50.0		100	72.6-129				
Surrogate: p-Bromofluorobenzene	47.7		"	50.0		95.4	63.5-145				
Surrogate: Toluene-d8	51.0		"	50.0		102	81.2-127				

**LCS (BJ20675-BS1)**

Prepared & Analyzed: 10/15/2012

1,1,1,2-Tetrachloroethane	54		ug/L	50.0		108	82.3-130				
1,1,1-Trichloroethane	55		"	50.0		110	75.6-137				
1,1,2,2-Tetrachloroethane	55		"	50.0		109	71.3-131				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57		"	50.0		113	71.1-129				
1,1,2-Trichloroethane	54		"	50.0		108	74.5-129				
1,1-Dichloroethane	56		"	50.0		111	79.6-132				
1,1-Dichloroethylene	57		"	50.0		114	80.2-146				
1,1-Dichloropropylene	53		"	50.0		106	75-136				
1,2,3-Trichlorobenzene	48		"	50.0		96.4	66.1-136				
1,2,3-Trichloropropane	49		"	50.0		97.3	63-131				
1,2,4-Trichlorobenzene	45		"	50.0		91.0	70.6-136				
1,2,4-Trimethylbenzene	51		"	50.0		102	75.3-135				
1,2-Dibromo-3-chloropropane	57		"	50.0		114	58.9-140				
1,2-Dibromoethane	53		"	50.0		106	79-130				
1,2-Dichlorobenzene	53		"	50.0		107	76.1-122				
1,2-Dichloroethane	55		"	50.0		110	74.6-132				
1,2-Dichloropropane	52		"	50.0		103	76.9-129				
1,3,5-Trimethylbenzene	49		"	50.0		98.2	70.6-127				
1,3-Dichlorobenzene	52		"	50.0		104	77-124				
1,3-Dichloropropane	55		"	50.0		110	75.8-126				
1,4-Dichlorobenzene	52		"	50.0		105	76.6-125				
1,4-Dioxane	74		"	50.0		147	70-130	High Bias			
2,2-Dichloropropane	53		"	50.0		105	69-133				
2-Butanone	49		"	50.0		98.4	70-130				
2-Chlorotoluene	48		"	50.0		95.1	66.3-119				
4-Chlorotoluene	48		"	50.0		95.8	69.2-127				
Acetone	37		"	50.0		75.0	70-130				
Benzene	56		"	50.0		112	76.2-129				
Bromobenzene	49		"	50.0		98.4	71.3-123				
Bromochloromethane	65		"	50.0		130	70.8-137				
Bromodichloromethane	55		"	50.0		110	79.7-134				
Bromoform	56		"	50.0		112	70.5-141				
Bromomethane	50		"	50.0		99.9	43.9-147				
Carbon tetrachloride	56		"	50.0		112	78.1-138				
Chlorobenzene	54		"	50.0		109	80.4-125				
Chloroethane	53		"	50.0		106	55.8-140				
Chloroform	56		"	50.0		112	76.6-133				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BJ20675 - EPA 5030B</b>											
<b>LCS (BJ20675-BS1)</b>						Prepared & Analyzed: 10/15/2012					
Chloromethane	43		ug/L	50.0		85.2	48.8-115				
cis-1,2-Dichloroethylene	58		"	50.0		115	75.1-128				
cis-1,3-Dichloropropylene	48		"	50.0		96.6	74.5-128				
Dibromochloromethane	56		"	50.0		113	79.8-134				
Dibromomethane	54		"	50.0		108	79-130				
Dichlorodifluoromethane	40		"	50.0		80.3	47.1-101				
Ethyl Benzene	55		"	50.0		109	80.8-128				
Hexachlorobutadiene	42		"	50.0		83.4	64.8-128				
Isopropylbenzene	55		"	50.0		109	75.5-135				
Methyl tert-butyl ether (MTBE)	55		"	50.0		110	65.1-140				
Methylene chloride	55		"	50.0		109	61.3-120				
Naphthalene	50		"	50.0		99.2	62.3-148				
n-Butylbenzene	47		"	50.0		94.5	67.2-123				
n-Propylbenzene	51		"	50.0		102	70.5-127				
o-Xylene	51		"	50.0		101	75.9-122				
p- & m- Xylenes	110		"	100		106	77.7-127				
p-Isopropyltoluene	53		"	50.0		105	75.6-129				
sec-Butylbenzene	51		"	50.0		102	71.5-125				
Styrene	54		"	50.0		108	77.8-123				
tert-Butylbenzene	62		"	50.0		125	75.9-151				
Tetrachloroethylene	64		"	50.0		128	63.6-167				
Toluene	54		"	50.0		108	77-123				
trans-1,2-Dichloroethylene	56		"	50.0		112	76.3-139				
trans-1,3-Dichloropropylene	53		"	50.0		106	72.5-137				
Trichloroethylene	55		"	50.0		111	77.9-130				
Trichlorofluoromethane	44		"	50.0		88.7	57.4-133				
Vinyl Chloride	47		"	50.0		93.9	54.9-124				
Vinyl acetate	20		"	50.0		40.1	70-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	49.9		"	50.0		99.7	72.6-129				
Surrogate: p-Bromofluorobenzene	49.0		"	50.0		98.1	63.5-145				
Surrogate: Toluene-d8	48.5		"	50.0		97.0	81.2-127				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BJ20675 - EPA 5030B</b>											
<b>LCS Dup (BJ20675-BSD1)</b>						Prepared: 10/15/2012 Analyzed: 10/16/2012					
1,1,1,2-Tetrachloroethane	55		ug/L	50.0		111	82.3-130		2.61	21.1	
1,1,1-Trichloroethane	56		"	50.0		113	75.6-137		3.00	19.7	
1,1,2,2-Tetrachloroethane	51		"	50.0		102	71.3-131		6.75	20.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	58		"	50.0		117	71.1-129		2.87	21.7	
1,1,2-Trichloroethane	55		"	50.0		111	74.5-129		2.21	20.3	
1,1-Dichloroethane	57		"	50.0		114	79.6-132		2.38	20.6	
1,1-Dichloroethylene	61		"	50.0		121	80.2-146		6.35	20	
1,1-Dichloropropylene	54		"	50.0		108	75-136		1.96	19.3	
1,2,3-Trichlorobenzene	47		"	50.0		94.3	66.1-136		2.20	21.6	
1,2,3-Trichloropropane	48		"	50.0		95.2	63-131		2.16	23.9	
1,2,4-Trichlorobenzene	46		"	50.0		92.8	70.6-136		1.96	21.7	
1,2,4-Trimethylbenzene	50		"	50.0		100	75.3-135		1.50	18.8	
1,2-Dibromo-3-chloropropane	50		"	50.0		101	58.9-140		12.5	27.7	
1,2-Dibromoethane	56		"	50.0		112	79-130		5.32	23	
1,2-Dichlorobenzene	53		"	50.0		106	76.1-122		0.924	19.8	
1,2-Dichloroethane	56		"	50.0		111	74.6-132		0.975	20.2	
1,2-Dichloropropane	53		"	50.0		106	76.9-129		2.72	20.7	
1,3,5-Trimethylbenzene	50		"	50.0		101	70.6-127		2.67	18.9	
1,3-Dichlorobenzene	53		"	50.0		106	77-124		2.51	19.2	
1,3-Dichloropropane	55		"	50.0		110	75.8-126		0.110	22.1	
1,4-Dichlorobenzene	53		"	50.0		106	76.6-125		1.31	18.6	
1,4-Dioxane	0.0		"	50.0			70-130	Low Bias		30	
2,2-Dichloropropane	54		"	50.0		109	69-133		3.10	19.8	
2-Butanone	46		"	50.0		91.5	70-130		7.25	30	
2-Chlorotoluene	49		"	50.0		97.3	66.3-119		2.22	21.6	
4-Chlorotoluene	48		"	50.0		95.9	69.2-127		0.0835	19	
Acetone	30		"	50.0		59.6	70-130	Low Bias	22.9	30	
Benzene	58		"	50.0		116	76.2-129		3.62	19	
Bromobenzene	48		"	50.0		96.7	71.3-123		1.70	20.3	
Bromochloromethane	52		"	50.0		103	70.8-137		23.0	23.9	
Bromodichloromethane	57		"	50.0		114	79.7-134		3.80	21	
Bromoform	54		"	50.0		108	70.5-141		2.93	21.8	
Bromomethane	53		"	50.0		106	43.9-147		6.30	28.4	
Carbon tetrachloride	59		"	50.0		119	78.1-138		5.64	20.1	
Chlorobenzene	56		"	50.0		113	80.4-125		4.04	19.9	
Chloroethane	54		"	50.0		108	55.8-140		2.13	23.3	
Chloroform	56		"	50.0		112	76.6-133		0.660	20.3	
Chloromethane	44		"	50.0		87.5	48.8-115		2.66	24.5	
cis-1,2-Dichloroethylene	58		"	50.0		116	75.1-128		0.710	20.5	
cis-1,3-Dichloropropylene	49		"	50.0		98.1	74.5-128		1.50	19.9	
Dibromochloromethane	55		"	50.0		111	79.8-134		1.40	21.3	
Dibromomethane	57		"	50.0		113	79-130		4.99	22.4	
Dichlorodifluoromethane	42		"	50.0		84.4	47.1-101		4.96	23.9	
Ethyl Benzene	57		"	50.0		113	80.8-128		3.42	19.2	
Hexachlorobutadiene	41		"	50.0		82.0	64.8-128		1.62	20.6	
Isopropylbenzene	55		"	50.0		110	75.5-135		0.910	20	
Methyl tert-butyl ether (MTBE)	56		"	50.0		111	65.1-140		1.47	23.6	
Methylene chloride	56		"	50.0		112	61.3-120		2.59	20.4	
Naphthalene	49		"	50.0		97.5	62.3-148		1.71	27.1	
n-Butylbenzene	49		"	50.0		97.1	67.2-123		2.63	19.1	
n-Propylbenzene	51		"	50.0		102	70.5-127		0.0984	23.4	
o-Xylene	53		"	50.0		106	75.9-122		4.29	19.3	
p- & m- Xylenes	110		"	100		110	77.7-127		3.62	18.6	
p-Isopropyltoluene	52		"	50.0		103	75.6-129		1.78	19.1	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20675 - EPA 5030B**

**LCS Dup (BJ20675-BSD1)**

Prepared: 10/15/2012 Analyzed: 10/16/2012

sec-Butylbenzene	52		ug/L	50.0		103	71.5-125		1.03	18.9	
Styrene	56		"	50.0		111	77.8-123		3.08	20.9	
tert-Butylbenzene	62		"	50.0		125	75.9-151		0.0321	20.9	
Tetrachloroethylene	68		"	50.0		135	63.6-167		5.05	27.7	
Toluene	56		"	50.0		112	77-123		3.45	18.7	
trans-1,2-Dichloroethylene	57		"	50.0		114	76.3-139		1.73	19.5	
trans-1,3-Dichloropropylene	55		"	50.0		110	72.5-137		3.22	19.3	
Trichloroethylene	56		"	50.0		112	77.9-130		0.988	20.5	
Trichlorofluoromethane	47		"	50.0		93.9	57.4-133		5.74	21.4	
Vinyl Chloride	48		"	50.0		95.5	54.9-124		1.75	22.3	
Vinyl acetate	20		"	50.0		39.2	70-130	Low Bias	2.27	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.4</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>48.4</i>		<i>"</i>	<i>50.0</i>		<i>96.8</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>50.8</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>81.2-127</i>				

**Batch BJ20680 - EPA 5030B**

**Blank (BJ20680-BLK1)**

Prepared & Analyzed: 10/16/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
4-Isopropyltoluene	ND	5.0	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20680 - EPA 5030B**

**Blank (BJ20680-BLK1)**

Prepared & Analyzed: 10/16/2012

cis-1,2-Dichloroethylene	ND	5.0	ug/L								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
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Surrogate: 1,2-Dichloroethane-d4	52.7		"	50.0		105	72.6-129				
Surrogate: p-Bromofluorobenzene	48.0		"	50.0		96.1	63.5-145				
Surrogate: Toluene-d8	50.5		"	50.0		101	81.2-127				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit			Result		Limits			Limit	
Batch BJ20680 - EPA 5030B											
LCS (BJ20680-BS1)			Prepared & Analyzed: 10/16/2012								
1,1,1,2-Tetrachloroethane	55		ug/L	50.0		111	71.7-135				
1,1,1-Trichloroethane	57		"	50.0		115	72.6-137				
1,1,2,2-Tetrachloroethane	51		"	50.0		102	65.4-135				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	61		"	50.0		122	67.8-129				
1,1,2-Trichloroethane	56		"	50.0		112	68.6-132				
1,1-Dichloroethane	60		"	50.0		120	71.7-131				
1,1-Dichloroethylene	62		"	50.0		125	74.4-148				
1,1-Dichloropropylene	59		"	50.0		117	72.5-135				
1,2,3-Trichlorobenzene	48		"	50.0		96.3	62.7-139				
1,2,3-Trichloropropane	48		"	50.0		95.8	61.7-131				
1,2,4-Trichlorobenzene	50		"	50.0		100	65-139				
1,2,4-Trimethylbenzene	53		"	50.0		106	73.1-136				
1,2-Dibromo-3-chloropropane	52		"	50.0		105	53.3-149				
1,2-Dibromoethane	56		"	50.0		113	72.7-134				
1,2-Dichlorobenzene	54		"	50.0		108	71.6-125				
1,2-Dichloroethane	57		"	50.0		113	68.7-136				
1,2-Dichloropropane	54		"	50.0		109	68.2-136				
1,3,5-Trimethylbenzene	52		"	50.0		105	69.7-127				
1,3-Dichlorobenzene	56		"	50.0		111	69.8-129				
1,3-Dichloropropane	56		"	50.0		113	69.3-132				
1,4-Dichlorobenzene	56		"	50.0		112	71.3-129				
2,2-Dichloropropane	61		"	50.0		122	65.5-131				
2-Chlorotoluene	49		"	50.0		98.7	64.2-120				
4-Chlorotoluene	51		"	50.0		102	68.8-129				
4-Isopropyltoluene	56	5.0	"				64-128				
Benzene	60		"	50.0		120	70.4-128				
Bromobenzene	49		"	50.0		99.0	66.8-127				
Bromochloromethane	59		"	50.0		117	71.6-133				
Bromodichloromethane	57		"	50.0		114	70.6-136				
Bromoform	54		"	50.0		108	63.2-139				
Bromomethane	53		"	50.0		106	50.2-135				
Carbon tetrachloride	61		"	50.0		122	71.9-140				
Chlorobenzene	59		"	50.0		117	76.4-127				
Chloroethane	56		"	50.0		112	50.8-142				
Chloroform	60		"	50.0		121	73.6-132				
Chloromethane	44		"	50.0		87.9	32.9-131				
cis-1,2-Dichloroethylene	61		"	50.0		122	69.5-128				
cis-1,3-Dichloropropylene	53		"	50.0		106	66.6-129				
Dibromochloromethane	59		"	50.0		118	71.4-135				
Dibromomethane	57		"	50.0		114	72.3-133				
Dichlorodifluoromethane	41		"	50.0		81.3	39.4-108				
Ethyl Benzene	59		"	50.0		118	75.2-131				
Hexachlorobutadiene	45		"	50.0		89.7	60.5-130				
Isopropylbenzene	58		"	50.0		116	73.7-136				
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	56.5-140				
Methylene chloride	58		"	50.0		117	58.4-120				
Naphthalene	48		"	50.0		96.3	55.2-150				
n-Butylbenzene	52		"	50.0		104	63.7-125				
n-Propylbenzene	54		"	50.0		108	67.8-128				
o-Xylene	55		"	50.0		110	70.4-126				
p- & m- Xylenes	120		"	100		115	73.8-130				
p-Isopropyltoluene	56		"	50.0		111	71.1-131				
sec-Butylbenzene	54		"	50.0		109	68.6-126				
Styrene	58		"	50.0		115	71.7-126				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BJ20680 - EPA 5030B

##### LCS (BJ20680-BS1)

Prepared & Analyzed: 10/16/2012

tert-Butylbenzene	67		ug/L	50.0		133	76.4-151				
Tetrachloroethylene	60		"	50.0		120	65-168				
Toluene	58		"	50.0		116	72.5-127				
trans-1,2-Dichloroethylene	60		"	50.0		121	62.2-144				
trans-1,3-Dichloropropylene	58		"	50.0		117	66-135				
Trichloroethylene	60		"	50.0		121	72.6-133				
Trichlorofluoromethane	53		"	50.0		106	51.5-131				
Vinyl Chloride	49		"	50.0		98.0	47-126				
Surrogate: 1,2-Dichloroethane-d4	51.9		"	50.0		104	72.6-129				
Surrogate: p-Bromofluorobenzene	47.6		"	50.0		95.2	63.5-145				
Surrogate: Toluene-d8	50.2		"	50.0		100	81.2-127				

##### LCS Dup (BJ20680-BSD1)

Prepared & Analyzed: 10/16/2012

1,1,1,2-Tetrachloroethane	55		ug/L	50.0		109	71.7-135		1.16	22.3	
1,1,1-Trichloroethane	55		"	50.0		111	72.6-137		3.87	22.5	
1,1,2,2-Tetrachloroethane	51		"	50.0		102	65.4-135		0.176	23.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56		"	50.0		112	67.8-129		8.36	25	
1,1,2-Trichloroethane	55		"	50.0		111	68.6-132		1.01	22.6	
1,1-Dichloroethane	56		"	50.0		112	71.7-131		7.07	22.8	
1,1-Dichloroethylene	55		"	50.0		110	74.4-148		12.6	26.8	
1,1-Dichloropropylene	53		"	50.0		106	72.5-135		9.86	22	
1,2,3-Trichlorobenzene	47		"	50.0		93.2	62.7-139		3.29	25.6	
1,2,3-Trichloropropane	47		"	50.0		94.9	61.7-131		0.923	24.2	
1,2,4-Trichlorobenzene	48		"	50.0		96.4	65-139		3.69	26.6	
1,2,4-Trimethylbenzene	51		"	50.0		102	73.1-136		3.04	24.3	
1,2-Dibromo-3-chloropropane	53		"	50.0		106	53.3-149		1.04	29.1	
1,2-Dibromoethane	55		"	50.0		110	72.7-134		2.46	21.1	
1,2-Dichlorobenzene	54		"	50.0		108	71.6-125		0.351	22.8	
1,2-Dichloroethane	55		"	50.0		109	68.7-136		3.45	21.6	
1,2-Dichloropropane	53		"	50.0		107	68.2-136		1.69	22.5	
1,3,5-Trimethylbenzene	50		"	50.0		101	69.7-127		4.19	23.3	
1,3-Dichlorobenzene	54		"	50.0		109	69.8-129		2.49	23.3	
1,3-Dichloropropane	55		"	50.0		111	69.3-132		1.81	22.4	
1,4-Dichlorobenzene	55		"	50.0		109	71.3-129		2.24	23.9	
2,2-Dichloropropane	56		"	50.0		113	65.5-131		8.30	22	
2-Chlorotoluene	47		"	50.0		94.2	64.2-120		4.67	23.3	
4-Chlorotoluene	49		"	50.0		98.5	68.8-129		3.32	23.5	
4-Isopropyltoluene	53	5.0	"				64-128			20.7	
Benzene	56		"	50.0		112	70.4-128		6.67	21.8	
Bromobenzene	48		"	50.0		96.8	66.8-127		2.23	23.1	
Bromochloromethane	55		"	50.0		110	71.6-133		6.84	22	
Bromodichloromethane	57		"	50.0		114	70.6-136		0.315	22.7	
Bromoform	55		"	50.0		109	63.2-139		0.662	23.3	
Bromomethane	48		"	50.0		96.3	50.2-135		9.74	29.1	
Carbon tetrachloride	56		"	50.0		113	71.9-140		7.89	22.4	
Chlorobenzene	56		"	50.0		112	76.4-127		4.70	21.8	
Chloroethane	53		"	50.0		107	50.8-142		4.25	24	
Chloroform	56		"	50.0		112	73.6-132		7.63	21.9	
Chloromethane	40		"	50.0		80.4	32.9-131		8.86	22.8	
cis-1,2-Dichloroethylene	56		"	50.0		113	69.5-128		7.55	22	
cis-1,3-Dichloropropylene	52		"	50.0		104	66.6-129		2.11	22.7	
Dibromochloromethane	58		"	50.0		117	71.4-135		1.09	22.1	
Dibromomethane	56		"	50.0		113	72.3-133		1.53	23.1	
Dichlorodifluoromethane	37		"	50.0		74.8	39.4-108		8.40	26	



**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20680 - EPA 5030B**

**LCS Dup (BJ20680-BSD1)**

Prepared & Analyzed: 10/16/2012

Ethyl Benzene	57		ug/L	50.0		114	75.2-131		3.55	22.5	
Hexachlorobutadiene	44		"	50.0		87.9	60.5-130		1.98	25.4	
Isopropylbenzene	55		"	50.0		111	73.7-136		4.56	23.2	
Methyl tert-butyl ether (MTBE)	51		"	50.0		102	56.5-140		5.56	30.6	
Methylene chloride	49		"	50.0		98.6	58.4-120		16.9	23.8	
Naphthalene	46		"	50.0		93.0	55.2-150		3.51	29.4	
n-Butylbenzene	50		"	50.0		100	63.7-125		3.93	25.3	
n-Propylbenzene	52		"	50.0		103	67.8-128		4.53	28.9	
o-Xylene	53		"	50.0		106	70.4-126		3.39	22.7	
p- & m- Xylenes	110		"	100		111	73.8-130		3.78	23	
p-Isopropyltoluene	53		"	50.0		107	71.1-131		4.06	23.4	
sec-Butylbenzene	52		"	50.0		105	68.6-126		4.03	23.3	
Styrene	57		"	50.0		114	71.7-126		1.17	21.9	
tert-Butylbenzene	65		"	50.0		129	76.4-151		3.02	45.4	
Tetrachloroethylene	57		"	50.0		115	65-168		4.47	27.9	
Toluene	57		"	50.0		113	72.5-127		2.70	22.9	
trans-1,2-Dichloroethylene	55		"	50.0		109	62.2-144		9.67	24.6	
trans-1,3-Dichloropropylene	57		"	50.0		114	66-135		2.81	23	
Trichloroethylene	56		"	50.0		112	72.6-133		7.06	21.9	
Trichlorofluoromethane	49		"	50.0		98.2	51.5-131		8.07	24.2	
Vinyl Chloride	46		"	50.0		91.0	47-126		7.36	25.5	
Surrogate: 1,2-Dichloroethane-d4	48.9		"	50.0		97.7	72.6-129				
Surrogate: p-Bromofluorobenzene	48.0		"	50.0		96.0	63.5-145				
Surrogate: Toluene-d8	51.1		"	50.0		102	81.2-127				

**Batch BJ20688 - EPA 5035B**

**Blank (BJ20688-BLK1)**

Prepared & Analyzed: 10/15/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	50	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20688 - EPA 5035B**

**Blank (BJ20688-BLK1)**

Prepared & Analyzed: 10/15/2012

Acetone	ND	10	ug/kg wet								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
Surrogate: 1,2-Dichloroethane-d4	53.2		ug/L	50.0		106	72.6-129				
Surrogate: p-Bromofluorobenzene	48.6		"	50.0		97.1	63.5-145				
Surrogate: Toluene-d8	49.6		"	50.0		99.3	81.2-127				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit			Result		Limits			Limit	
Batch BJ20688 - EPA 5035B											
LCS (BJ20688-BS1)				Prepared & Analyzed: 10/15/2012							
1,1,1,2-Tetrachloroethane	54		ug/L	50.0		108	71.7-135				
1,1,1-Trichloroethane	55		"	50.0		110	72.6-137				
1,1,2,2-Tetrachloroethane	51		"	50.0		102	65.4-135				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57		"	50.0		115	67.8-129				
1,1,2-Trichloroethane	53		"	50.0		106	68.6-132				
1,1-Dichloroethane	56		"	50.0		112	71.7-131				
1,1-Dichloroethylene	59		"	50.0		119	74.4-148				
1,1-Dichloropropylene	53		"	50.0		106	72.5-135				
1,2,3-Trichlorobenzene	44		"	50.0		89.0	62.7-139				
1,2,3-Trichloropropane	45		"	50.0		89.2	61.7-131				
1,2,4-Trichlorobenzene	48		"	50.0		95.5	65-139				
1,2,4-Trimethylbenzene	52		"	50.0		105	73.1-136				
1,2-Dibromo-3-chloropropane	51		"	50.0		102	53.3-149				
1,2-Dibromoethane	52		"	50.0		104	72.7-134				
1,2-Dichlorobenzene	54		"	50.0		108	71.6-125				
1,2-Dichloroethane	52		"	50.0		104	68.7-136				
1,2-Dichloropropane	52		"	50.0		105	68.2-136				
1,3,5-Trimethylbenzene	50		"	50.0		99.5	69.7-127				
1,3-Dichlorobenzene	53		"	50.0		106	69.8-129				
1,3-Dichloropropane	53		"	50.0		106	69.3-132				
1,4-Dichlorobenzene	53		"	50.0		106	71.3-129				
1,4-Dioxane	43		"	50.0		85.8	70-130				
2,2-Dichloropropane	56		"	50.0		113	65.5-131				
2-Butanone	40		"	50.0		81.0	70-130				
2-Chlorotoluene	48		"	50.0		96.9	64.2-120				
4-Chlorotoluene	49		"	50.0		98.7	68.8-129				
Acetone	30		"	50.0		60.1	70-130	Low Bias			
Benzene	56		"	50.0		112	70.4-128				
Bromobenzene	50		"	50.0		99.3	66.8-127				
Bromochloromethane	56		"	50.0		112	71.6-133				
Bromodichloromethane	55		"	50.0		110	70.6-136				
Bromoform	54		"	50.0		109	63.2-139				
Bromomethane	57		"	50.0		113	50.2-135				
Carbon tetrachloride	56		"	50.0		112	71.9-140				
Chlorobenzene	55		"	50.0		110	76.4-127				
Chloroethane	57		"	50.0		113	50.8-142				
Chloroform	55		"	50.0		110	73.6-132				
Chloromethane	43		"	50.0		86.1	32.9-131				
cis-1,2-Dichloroethylene	57		"	50.0		114	69.5-128				
cis-1,3-Dichloropropylene	50		"	50.0		101	66.6-129				
Dibromochloromethane	54		"	50.0		108	71.4-135				
Dibromomethane	54		"	50.0		108	72.3-133				
Dichlorodifluoromethane	39		"	50.0		77.5	39.4-108				
Ethyl Benzene	56		"	50.0		111	75.2-131				
Hexachlorobutadiene	42		"	50.0		84.9	60.5-130				
Isopropylbenzene	56		"	50.0		113	73.7-136				
Methyl tert-butyl ether (MTBE)	52		"	50.0		103	56.5-140				
Methylene chloride	57		"	50.0		113	58.4-120				
Naphthalene	43		"	50.0		86.4	55.2-150				
n-Butylbenzene	49		"	50.0		97.8	63.7-125				
n-Propylbenzene	52		"	50.0		105	67.8-128				
o-Xylene	52		"	50.0		103	70.4-126				
p- & m- Xylenes	110		"	100		108	73.8-130				
p-Isopropyltoluene	53		"	50.0		106	71.1-131				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BJ20688 - EPA 5035B**

**LCS (BJ20688-BS1)**

Prepared & Analyzed: 10/15/2012

sec-Butylbenzene	52		ug/L	50.0		104	68.6-126				
Styrene	54		"	50.0		109	71.7-126				
tert-Butylbenzene	65		"	50.0		130	76.4-151				
Tetrachloroethylene	58		"	50.0		116	65-168				
Toluene	55		"	50.0		110	72.5-127				
trans-1,2-Dichloroethylene	56		"	50.0		112	62.2-144				
trans-1,3-Dichloropropylene	55		"	50.0		110	66-135				
Trichloroethylene	55		"	50.0		110	72.6-133				
Trichlorofluoromethane	51		"	50.0		101	51.5-131				
Vinyl Chloride	49		"	50.0		97.3	47-126				
Vinyl acetate	20		"	50.0		41.0	70-130	Low Bias			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.4</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>50.2</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>81.2-127</i>				

**LCS Dup (BJ20688-BSD1)**

Prepared & Analyzed: 10/15/2012

1,1,1,2-Tetrachloroethane	54		ug/L	50.0		109	71.7-135		0.792	22.3	
1,1,1-Trichloroethane	54		"	50.0		108	72.6-137		1.41	22.5	
1,1,2,2-Tetrachloroethane	50		"	50.0		99.8	65.4-135		2.00	23.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	59		"	50.0		117	67.8-129		2.07	25	
1,1,2-Trichloroethane	54		"	50.0		108	68.6-132		2.46	22.6	
1,1-Dichloroethane	56		"	50.0		112	71.7-131		0.501	22.8	
1,1-Dichloroethylene	59		"	50.0		117	74.4-148		1.14	26.8	
1,1-Dichloropropylene	54		"	50.0		107	72.5-135		1.60	22	
1,2,3-Trichlorobenzene	46		"	50.0		92.4	62.7-139		3.84	25.6	
1,2,3-Trichloropropane	45		"	50.0		90.1	61.7-131		1.03	24.2	
1,2,4-Trichlorobenzene	47		"	50.0		93.8	65-139		1.78	26.6	
1,2,4-Trimethylbenzene	51		"	50.0		102	73.1-136		2.26	24.3	
1,2-Dibromo-3-chloropropane	51		"	50.0		103	53.3-149		0.803	29.1	
1,2-Dibromoethane	53		"	50.0		105	72.7-134		1.11	21.1	
1,2-Dichlorobenzene	53		"	50.0		107	71.6-125		1.04	22.8	
1,2-Dichloroethane	52		"	50.0		103	68.7-136		0.386	21.6	
1,2-Dichloropropane	54		"	50.0		108	68.2-136		2.81	22.5	
1,3,5-Trimethylbenzene	52		"	50.0		104	69.7-127		4.75	23.3	
1,3-Dichlorobenzene	55		"	50.0		110	69.8-129		3.67	23.3	
1,3-Dichloropropane	54		"	50.0		108	69.3-132		1.52	22.4	
1,4-Dichlorobenzene	54		"	50.0		108	71.3-129		1.87	23.9	
1,4-Dioxane	0.0		"	50.0			70-130	Low Bias		30	
2,2-Dichloropropane	56		"	50.0		113	65.5-131		0.231	22	
2-Butanone	43		"	50.0		85.3	70-130		5.17	30	
2-Chlorotoluene	49		"	50.0		97.3	64.2-120		0.453	23.3	
4-Chlorotoluene	50		"	50.0		99.6	68.8-129		0.888	23.5	
Acetone	29		"	50.0		57.5	70-130	Low Bias	4.35	30	
Benzene	56		"	50.0		112	70.4-128		0.285	21.8	
Bromobenzene	49		"	50.0		99.0	66.8-127		0.303	23.1	
Bromochloromethane	55		"	50.0		111	71.6-133		1.33	22	
Bromodichloromethane	57		"	50.0		113	70.6-136		3.11	22.7	
Bromoform	54		"	50.0		109	63.2-139		0.110	23.3	
Bromomethane	56		"	50.0		112	50.2-135		1.62	29.1	
Carbon tetrachloride	57		"	50.0		115	71.9-140		2.69	22.4	
Chlorobenzene	55		"	50.0		111	76.4-127		1.11	21.8	
Chloroethane	57		"	50.0		115	50.8-142		1.35	24	
Chloroform	56		"	50.0		112	73.6-132		1.79	21.9	
Chloromethane	43		"	50.0		85.6	32.9-131		0.559	22.8	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BJ20688 - EPA 5035B</b>											
<b>LCS Dup (BJ20688-BSD1)</b>						Prepared & Analyzed: 10/15/2012					
cis-1,2-Dichloroethylene	58		ug/L	50.0		115	69.5-128		0.871	22	
cis-1,3-Dichloropropylene	51		"	50.0		103	66.6-129		1.71	22.7	
Dibromochloromethane	57		"	50.0		113	71.4-135		4.51	22.1	
Dibromomethane	53		"	50.0		106	72.3-133		1.72	23.1	
Dichlorodifluoromethane	40		"	50.0		80.9	39.4-108		4.27	26	
Ethyl Benzene	57		"	50.0		114	75.2-131		2.22	22.5	
Hexachlorobutadiene	43		"	50.0		86.4	60.5-130		1.77	25.4	
Isopropylbenzene	56		"	50.0		113	73.7-136		0.302	23.2	
Methyl tert-butyl ether (MTBE)	50		"	50.0		101	56.5-140		2.23	30.6	
Methylene chloride	56		"	50.0		111	58.4-120		1.71	23.8	
Naphthalene	44		"	50.0		88.0	55.2-150		1.74	29.4	
n-Butylbenzene	50		"	50.0		99.8	63.7-125		2.09	25.3	
n-Propylbenzene	53		"	50.0		106	67.8-128		1.05	28.9	
o-Xylene	53		"	50.0		105	70.4-126		1.92	22.7	
p- & m- Xylenes	110		"	100		110	73.8-130		1.85	23	
p-Isopropyltoluene	54		"	50.0		107	71.1-131		0.806	23.4	
sec-Butylbenzene	53		"	50.0		106	68.6-126		1.77	23.3	
Styrene	55		"	50.0		110	71.7-126		1.28	21.9	
tert-Butylbenzene	64		"	50.0		129	76.4-151		0.619	45.4	
Tetrachloroethylene	60		"	50.0		120	65-168		3.28	27.9	
Toluene	56		"	50.0		112	72.5-127		1.64	22.9	
trans-1,2-Dichloroethylene	56		"	50.0		112	62.2-144		0.196	24.6	
trans-1,3-Dichloropropylene	55		"	50.0		111	66-135		0.891	23	
Trichloroethylene	57		"	50.0		115	72.6-133		3.86	21.9	
Trichlorofluoromethane	50		"	50.0		101	51.5-131		0.475	24.2	
Vinyl Chloride	48		"	50.0		96.0	47-126		1.37	25.5	
Vinyl acetate	19		"	50.0		38.9	70-130	Low Bias	5.36	30	
Surrogate: 1,2-Dichloroethane-d4	48.6		"	50.0		97.2	72.6-129				
Surrogate: p-Bromofluorobenzene	48.0		"	50.0		96.0	63.5-145				
Surrogate: Toluene-d8	50.2		"	50.0		100	81.2-127				

**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); therefore, the result is an estimated concentration.

EXT-COMP Completed

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ND           Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL           REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL        METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

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.

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## Field Chain-of-Custody Record

NOTE: York's Std. Terms &amp; 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 &amp; Conditions unless superseded by written contract.

<b>YOUR INFORMATION</b> MID-HUDSON GEOSCIENCES 1003 N.Y. ROUTE 44/55 P.O. BOX 332 CLINTONDALE, NY 12515-0332 Phone No. (845) 883-5866 Contact: Kathie BeinKafner rockdoctor@optonline.net E-Mail Address:		<b>Report To:</b> Company: American Cleaners Address: 360 Route 211 East Middletown, NY 10940 Phone No. 845 343-6111 x 102 Attention: Mr. Erez Halevach E-Mail Address: erezh19@gmail.com		<b>Invoice To:</b> American Cleaners Back door Excavation Purchase Order No.		<b>YOUR PROJECT ID</b> American Cleaners Back door Excavation		<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 type="checkbox"/>		<b>Report Type</b> 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 checked="" type="checkbox"/> NUDEP Red. Deliv. <input type="checkbox"/> Electronic Data Deliverables (EDD) <input type="checkbox"/> Simple Excel <input checked="" type="checkbox"/> NYSDEC EQuIS <input checked="" type="checkbox"/> EQuIS (std) <input type="checkbox"/> EZ-EDD (EQuIS) <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 <input type="checkbox"/> 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>Volatiles</b> 8260 full TICs Site Spec. STARS list BTEX MTBE TAGM list CT RCP list Arom. only Halog. only App. IX list 8021B list		<b>Semi-Vol.</b> 8270 or 625 STARS list BN Only Acids Only PAH list TAGM list CT RCP list TCL list NUDEP list App. IX TCLP BNA SPLP or TCLP		<b>Metals</b> RCRA8 PP13 list TAL CT15 list TAGM list NUDEP list Dissolved SPLP or TCLP Ind. 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>Misc.</b> Corrosivity Reactivity Ignitability Flash Point Sieve Anal. Heterotrophs TOX BTU/lb. Aquatic Tox. TOC NYDEC Sewer 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.

Katharine J. BeinKafner  
 Samples Collected/Authorized By (Signature)  
 Katharine J. BeinKafner  
 Name (printed)

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ACMS 20	10/11/12	Soil	8260 full and TCLP Vocs full list	202 glass jar, screw lid
ACMS 21	10/11/12	Soil	8260 full and TCLP Vocs full list	202 glass jar, screw lid
Trip Blank	10/11/12	distilled water	8260 full	2 40ml glass vial
Field Blank (Equipment)	10/11/12	distilled water	8260 full	2 40ml glass vial
Comments: Tetrachloroethylene is chemical of concern. Will call Rich/Phil to discuss turn around time.				
Preservation Check those Applicable Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>		4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input checked="" type="checkbox"/> MeOH <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> ZnAc <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> O <sub>2</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> Other <input type="checkbox"/>		Temperature on Receipt 4.5 °C
Samples Relinquished By Katharine J. BeinKafner 10/12/12		Samples Received By Grace 10-12-12 1530		Date/Time 11:15
Samples Relinquished By Date/Time		Samples Received in LAB by Date/Time		Date/Time

2.

$\frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

[illegible][illegible][illegible]

10

[illegible]

$\frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right) = 1$

Figure 1. The effect of the  $\alpha$  parameter on the  $\beta$  parameter. The figure shows the relationship between  $\alpha$  and  $\beta$  for different values of  $\alpha$  (0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0). The x-axis represents  $\alpha$  and the y-axis represents  $\beta$ . The curves show that  $\beta$  increases with  $\alpha$  and approaches 1.0 as  $\alpha$  increases.



# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 12/12/2012  
**Client Project ID: American Cleaners Middletown, NY Backdoor Excavatio**  
York Project (SDG) No.: 12L0069

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 12/12/2012  
Client Project ID: American Cleaners Middletown, NY Backdoor Excavatio  
York Project (SDG) No.: 12L0069

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

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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 03, 2012 and listed below. The project was identified as your project: **American Cleaners Middletown, NY Backdoor Excavatio.**

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>
12L0069-01	B3-24"	Soil	11/29/2012	12/03/2012
12L0069-02	B6-24"	Soil	11/29/2012	12/03/2012
12L0069-03	B7-24"	Soil	11/29/2012	12/03/2012
12L0069-04	SWW-12"	Soil	11/29/2012	12/03/2012
12L0069-05	SWW-24"	Soil	11/29/2012	12/03/2012
12L0069-06	NWW-10"	Soil	11/29/2012	12/03/2012
12L0069-07	NWW-25"	Soil	11/29/2012	12/03/2012
12L0069-08	Trip Blank	Water	11/29/2012	12/03/2012
12L0069-09	Field Blank	Water	11/29/2012	12/03/2012

## **General Notes for York Project (SDG) No.: 12L0069**

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:**



Robert Q. Bradley  
Laboratory Director

**Date:** 12/12/2012

**YORK**

### Sample Information

**Client Sample ID:** B3-24"

**York Sample ID:** 12L0069-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Soil

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes:** VOA-COI

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	56	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
67-64-1	Acetone	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
71-43-2	Benzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
75-25-2	Bromoform	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS

### Sample Information

**Client Sample ID:** B3-24"

**York Sample ID:** 12L0069-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Soil

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes: VOA-CO] Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
156-59-2	cis-1,2-Dichloroethylene	4.5	J	ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
75-09-2	Methylene chloride	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
100-42-5	Styrene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
127-18-4	Tetrachloroethylene	110		ug/kg dry	28	56	10	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 10:42	SS
108-88-3	Toluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
79-01-6	Trichloroethylene	12		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.8	17	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 01:39	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								

### Sample Information

**Client Sample ID:** B3-24"

**York Sample ID:** 12L0069-01

<u>York Project (SDG) No.</u> 12L0069	<u>Client Project ID</u> American Cleaners Middletown, NY Backdoor Excavatio	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2012 3:00 pm	<u>Date Received</u> 12/03/2012
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**Volatile Organics, 8260 List**

**Log-in Notes: VOA-CO**    **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %			73-130						
460-00-4	Surrogate: p-Bromofluorobenzene	102 %			72-127						
2037-26-5	Surrogate: Toluene-d8	95.4 %			84-117						

**Total Solids**

**Log-in Notes: VOA-CO**    **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	89.7		%	0.100	0.100	1	SM 2540G	12/05/2012 15:06	12/05/2012 15:06	AMC

### Sample Information

**Client Sample ID:** B6-24"

**York Sample ID:** 12L0069-02

<u>York Project (SDG) No.</u> 12L0069	<u>Client Project ID</u> American Cleaners Middletown, NY Backdoor Excavatio	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2012 3:00 pm	<u>Date Received</u> 12/03/2012
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**Volatile Organics, 8260 List**

**Log-in Notes: VOA-CO**    **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS

### Sample Information

**Client Sample ID:** B6-24"

**York Sample ID:** 12L0069-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Soil

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes:** VOA-CO]

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	57	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
67-64-1	Acetone	3.1	J	ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
71-43-2	Benzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
75-25-2	Bromoform	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
75-09-2	Methylene chloride	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS

### Sample Information

**Client Sample ID:** B6-24"

**York Sample ID:** 12L0069-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12L0069	American Cleaners Middletown, NY Backdoor Excavatio	Soil	November 29, 2012 3:00 pm	12/03/2012

#### Volatile Organics, 8260 List

Log-in Notes: VOA-CO] Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
100-42-5	Styrene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
127-18-4	Tetrachloroethylene	51		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
108-88-3	Toluene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
79-01-6	Trichloroethylene	4.6	J	ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.8	17	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:16	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %		73-130							
460-00-4	Surrogate: p-Bromofluorobenzene	101 %		72-127							
2037-26-5	Surrogate: Toluene-d8	95.7 %		84-117							

#### Total Solids

Log-in Notes: VOA-CO] Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	88.6		%	0.100	0.100	1	SM 2540G	12/05/2012 15:06	12/05/2012 15:06	AMC

### Sample Information

**Client Sample ID:** B7-24"

**York Sample ID:** 12L0069-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12L0069	American Cleaners Middletown, NY Backdoor Excavatio	Soil	November 29, 2012 3:00 pm	12/03/2012

#### Volatile Organics, 8260 List

Log-in Notes: VOA-CO] Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS



### Sample Information

**Client Sample ID:** B7-24"

**York Sample ID:** 12L0069-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Soil

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes: VOA-COI Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.9	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.9	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.9	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	57	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.9	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
67-64-1	Acetone	ND		ug/kg dry	2.9	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
71-43-2	Benzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
75-25-2	Bromoform	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS

### Sample Information

**Client Sample ID:** B7-24"

**York Sample ID:** 12L0069-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Soil

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes: VOA-COI Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
75-09-2	Methylene chloride	ND		ug/kg dry	2.9	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.9	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	2.9	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
100-42-5	Styrene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
127-18-4	Tetrachloroethylene	13		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
108-88-3	Toluene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.9	17	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.9	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 02:54	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %	73-130								
460-00-4	Surrogate: p-Bromofluorobenzene	105 %	72-127								
2037-26-5	Surrogate: Toluene-d8	95.7 %	84-117								

### Sample Information

**Client Sample ID:** B7-24"

**York Sample ID:** 12L0069-03

<u>York Project (SDG) No.</u> 12L0069	<u>Client Project ID</u> American Cleaners Middletown, NY Backdoor Excavatio	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2012 3:00 pm	<u>Date Received</u> 12/03/2012
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**Total Solids**

Log-in Notes: VOA-COI Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	87.3		%	0.100	0.100	1	SM 2540G	12/05/2012 15:06	12/05/2012 15:06	AMC

### Sample Information

**Client Sample ID:** SWW-12"

**York Sample ID:** 12L0069-04

<u>York Project (SDG) No.</u> 12L0069	<u>Client Project ID</u> American Cleaners Middletown, NY Backdoor Excavatio	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2012 3:00 pm	<u>Date Received</u> 12/03/2012
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**Volatile Organics, 8260 List**

Log-in Notes: VOA-COI Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	56	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS

### Sample Information

**Client Sample ID:** SWW-12"

**York Sample ID:** 12L0069-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Soil

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes: VOA-COI** **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
67-64-1	Acetone	4.0	J	ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
71-43-2	Benzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
75-25-2	Bromoform	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
75-09-2	Methylene chloride	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
100-42-5	Styrene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
127-18-4	Tetrachloroethylene	9.9		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS

### Sample Information

**Client Sample ID:** SWW-12"

**York Sample ID:** 12L0069-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12L0069	American Cleaners Middletown, NY Backdoor Excavatio	Soil	November 29, 2012 3:00 pm	12/03/2012

#### Volatile Organics, 8260 List

Log-in Notes: VOA-CO] Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.8	17	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 03:32	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %		73-130							
460-00-4	Surrogate: p-Bromofluorobenzene	102 %		72-127							
2037-26-5	Surrogate: Toluene-d8	96.6 %		84-117							

#### Total Solids

Log-in Notes: VOA-CO] Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	88.8		%	0.100	0.100	1	SM 2540G	12/05/2012 15:06	12/05/2012 15:06	AMC

### Sample Information

**Client Sample ID:** SWW-24"

**York Sample ID:** 12L0069-05

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12L0069	American Cleaners Middletown, NY Backdoor Excavatio	Soil	November 29, 2012 3:00 pm	12/03/2012

#### Volatile Organics, 8260 List

Log-in Notes: VOA-CO] Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS

### Sample Information

**Client Sample ID:** SWW-24"

**York Sample ID:** 12L0069-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Soil

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes:** VOA-COI

**Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	56	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
67-64-1	Acetone	4.4	J	ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
71-43-2	Benzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
75-25-2	Bromoform	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS

### Sample Information

**Client Sample ID:** SWW-24"

**York Sample ID:** 12L0069-05

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12L0069	American Cleaners Middletown, NY Backdoor Excavatio	Soil	November 29, 2012 3:00 pm	12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes: VOA-COI    Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
75-09-2	Methylene chloride	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
100-42-5	Styrene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
127-18-4	Tetrachloroethylene	21		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
108-88-3	Toluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.8	17	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:10	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	73-130								
460-00-4	Surrogate: p-Bromofluorobenzene	102 %	72-127								
2037-26-5	Surrogate: Toluene-d8	96.4 %	84-117								



### Sample Information

**Client Sample ID:** SWW-24"

**York Sample ID:** 12L0069-05

<u>York Project (SDG) No.</u> 12L0069	<u>Client Project ID</u> American Cleaners Middletown, NY Backdoor Excavatio	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2012 3:00 pm	<u>Date Received</u> 12/03/2012
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**Total Solids**

**Log-in Notes: VOA-CO**    **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	88.6		%	0.100	0.100	1	SM 2540G	12/05/2012 15:06	12/05/2012 15:06	AMC

### Sample Information

**Client Sample ID:** NWW-10"

**York Sample ID:** 12L0069-06

<u>York Project (SDG) No.</u> 12L0069	<u>Client Project ID</u> American Cleaners Middletown, NY Backdoor Excavatio	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2012 3:00 pm	<u>Date Received</u> 12/03/2012
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**Volatile Organics, 8260 List**

**Log-in Notes: VOA-CO**    **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	57	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS



### Sample Information

**Client Sample ID:** NWW-10"

**York Sample ID:** 12L0069-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Soil

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes: VOA-COI** **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
67-64-1	Acetone	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
71-43-2	Benzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
75-25-2	Bromoform	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
75-09-2	Methylene chloride	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
100-42-5	Styrene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
127-18-4	Tetrachloroethylene	44		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS

### Sample Information

**Client Sample ID:** NWW-10"

**York Sample ID:** 12L0069-06

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12L0069	American Cleaners Middletown, NY Backdoor Excavatio	Soil	November 29, 2012 3:00 pm	12/03/2012

#### Volatile Organics, 8260 List

Log-in Notes: VOA-CO] Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.7	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.8	17	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 04:47	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	111 %	73-130								
460-00-4	Surrogate: p-Bromofluorobenzene	103 %	72-127								
2037-26-5	Surrogate: Toluene-d8	97.9 %	84-117								

#### Total Solids

Log-in Notes: VOA-CO] Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	88.5		%	0.100	0.100	1	SM 2540G	12/05/2012 15:06	12/05/2012 15:06	AMC

### Sample Information

**Client Sample ID:** NWW-25"

**York Sample ID:** 12L0069-07

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12L0069	American Cleaners Middletown, NY Backdoor Excavatio	Soil	November 29, 2012 3:00 pm	12/03/2012

#### Volatile Organics, 8260 List

Log-in Notes: VOA-CO] Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.9	12	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS

### Sample Information

**Client Sample ID:** NWW-25"

**York Sample ID:** 12L0069-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Soil

November 29, 2012 3:00 pm

12/03/2012

#### Volatile Organics, 8260 List

Log-in Notes: VOA-CO]

Sample Notes:

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.9	12	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.9	12	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	15	58	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.9	12	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
67-64-1	Acetone	6.0	J	ug/kg dry	2.9	12	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
71-43-2	Benzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
75-25-2	Bromoform	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS

### Sample Information

**Client Sample ID:** NWW-25"

**York Sample ID:** 12L0069-07

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12L0069	American Cleaners Middletown, NY Backdoor Excavatio	Soil	November 29, 2012 3:00 pm	12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes: VOA-COI    Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
75-09-2	Methylene chloride	ND		ug/kg dry	2.9	12	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.9	12	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	2.9	12	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
100-42-5	Styrene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
127-18-4	Tetrachloroethylene	29		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
108-88-3	Toluene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.8	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.9	17	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.9	12	1	EPA SW846-8260B	12/05/2012 16:48	12/06/2012 05:25	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	73-130								
460-00-4	Surrogate: p-Bromofluorobenzene	102 %	72-127								
2037-26-5	Surrogate: Toluene-d8	92.1 %	84-117								

### Sample Information

**Client Sample ID:** NWW-25"

**York Sample ID:** 12L0069-07

<u>York Project (SDG) No.</u> 12L0069	<u>Client Project ID</u> American Cleaners Middletown, NY Backdoor Excavatio	<u>Matrix</u> Soil	<u>Collection Date/Time</u> November 29, 2012 3:00 pm	<u>Date Received</u> 12/03/2012
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**Total Solids**

**Log-in Notes:** VOA-COI

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	86.8		%	0.100	0.100	1	SM 2540G	12/05/2012 15:06	12/05/2012 15:06	AMC

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12L0069-08

<u>York Project (SDG) No.</u> 12L0069	<u>Client Project ID</u> American Cleaners Middletown, NY Backdoor Excavatio	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 29, 2012 3:00 pm	<u>Date Received</u> 12/03/2012
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**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12L0069-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Water

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS

### Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 12L0069-08

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12L0069	American Cleaners Middletown, NY Backdoor Excavatio	Water	November 29, 2012 3:00 pm	12/03/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:19	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	97.2 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	94.6 %	81.2-127								

### Sample Information

**Client Sample ID:** Field Blank

**York Sample ID:** 12L0069-09

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
12L0069	American Cleaners Middletown, NY Backdoor Excavatio	Water	November 29, 2012 3:00 pm	12/03/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.32	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.26	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.99	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.73	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS



### Sample Information

**Client Sample ID:** Field Blank

**York Sample ID:** 12L0069-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Water

November 29, 2012 3:00 pm

12/03/2012

**Volatile Organics, 8260 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.47	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.55	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.62	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
123-91-1	1,4-Dioxane	ND		ug/L	11	50	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.31	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
108-86-1	Bromobenzene	ND		ug/L	1.0	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
74-97-5	Bromochloromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
67-66-3	Chloroform	ND		ug/L	0.42	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
74-95-3	Dibromomethane	ND		ug/L	0.58	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS



### Sample Information

**Client Sample ID:** Field Blank

**York Sample ID:** 12L0069-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

12L0069

American Cleaners Middletown, NY Backdoor Excavatio

Water

November 29, 2012 3:00 pm

12/03/2012

#### Volatile Organics, 8260 List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.34	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
108-05-4	Vinyl acetate	ND		ug/L	0.73	10	1	EPA SW846-8260B	12/05/2012 12:44	12/05/2012 17:57	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	72.6-129								
460-00-4	Surrogate: p-Bromofluorobenzene	99.5 %	63.5-145								
2037-26-5	Surrogate: Toluene-d8	94.2 %	81.2-127								

## Analytical Batch Summary

**Batch ID:** BL20149      **Preparation Method:** % Solids Prep      **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
12L0069-01	B3-24"	12/05/12
12L0069-02	B6-24"	12/05/12
12L0069-03	B7-24"	12/05/12
12L0069-04	SWW-12"	12/05/12
12L0069-05	SWW-24"	12/05/12
12L0069-06	NWW-10"	12/05/12
12L0069-07	NWW-25"	12/05/12

**Batch ID:** BL20170      **Preparation Method:** EPA 5030B      **Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
12L0069-08	Trip Blank	12/05/12
12L0069-09	Field Blank	12/05/12
BL20170-BLK1	Blank	12/05/12
BL20170-BS1	LCS	12/05/12
BL20170-BSD1	LCS Dup	12/05/12

**Batch ID:** BL20179      **Preparation Method:** EPA 5035B      **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
12L0069-01	B3-24"	12/05/12
12L0069-02	B6-24"	12/05/12
12L0069-03	B7-24"	12/05/12
12L0069-04	SWW-12"	12/05/12
12L0069-05	SWW-24"	12/05/12
12L0069-06	NWW-10"	12/05/12
12L0069-07	NWW-25"	12/05/12
BL20179-BLK1	Blank	12/05/12
BL20179-BS1	LCS	12/05/12
BL20179-BSD1	LCS Dup	12/05/12
BL20179-MS1	Matrix Spike	12/05/12
BL20179-MSD1	Matrix Spike Dup	12/05/12

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL20170 - EPA 5030B**

**Blank (BL20170-BLK1)**

Prepared & Analyzed: 12/05/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	50	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	10	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylene chloride	ND	10	"
Naphthalene	ND	10	"
n-Butylbenzene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
o-Xylene	ND	5.0	"
p- & m- Xylenes	ND	10	"
p-Isopropyltoluene	ND	5.0	"

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL20170 - EPA 5030B**

**Blank (BL20170-BLK1)**

Prepared & Analyzed: 12/05/2012

sec-Butylbenzene	ND	5.0	ug/L								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>55.1</i>		<i>"</i>	<i>50.0</i>		<i>110</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.4</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>47.4</i>		<i>"</i>	<i>50.0</i>		<i>94.7</i>	<i>81.2-127</i>				

**LCS (BL20170-BS1)**

Prepared & Analyzed: 12/05/2012

1,1,1,2-Tetrachloroethane	53		ug/L	50.0		106	82.3-130				
1,1,1-Trichloroethane	58		"	50.0		116	75.6-137				
1,1,2,2-Tetrachloroethane	47		"	50.0		93.2	71.3-131				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	62		"	50.0		124	71.1-129				
1,1,2-Trichloroethane	48		"	50.0		96.8	74.5-129				
1,1-Dichloroethane	52		"	50.0		104	79.6-132				
1,1-Dichloroethylene	54		"	50.0		107	80.2-146				
1,1-Dichloropropylene	50		"	50.0		101	75-136				
1,2,3-Trichlorobenzene	50		"	50.0		100	66.1-136				
1,2,3-Trichloropropane	47		"	50.0		94.2	63-131				
1,2,4-Trichlorobenzene	51		"	50.0		102	70.6-136				
1,2,4-Trimethylbenzene	47		"	50.0		94.7	75.3-135				
1,2-Dibromo-3-chloropropane	52		"	50.0		104	58.9-140				
1,2-Dibromoethane	52		"	50.0		103	79-130				
1,2-Dichlorobenzene	49		"	50.0		97.4	76.1-122				
1,2-Dichloroethane	53		"	50.0		107	74.6-132				
1,2-Dichloropropane	47		"	50.0		93.9	76.9-129				
1,3,5-Trimethylbenzene	48		"	50.0		96.9	70.6-127				
1,3-Dichlorobenzene	49		"	50.0		97.0	77-124				
1,3-Dichloropropane	48		"	50.0		96.4	75.8-126				
1,4-Dichlorobenzene	49		"	50.0		97.3	76.6-125				
1,4-Dioxane	61		"	50.0		121	70-130				
2,2-Dichloropropane	56		"	50.0		111	69-133				
2-Butanone	45		"	50.0		90.6	70-130				
2-Chlorotoluene	47		"	50.0		94.6	66.3-119				
4-Chlorotoluene	48		"	50.0		95.7	69.2-127				
Acetone	39		"	50.0		77.8	70-130				
Benzene	52		"	50.0		105	76.2-129				
Bromobenzene	47		"	50.0		93.0	71.3-123				
Bromochloromethane	49		"	50.0		97.2	70.8-137				
Bromodichloromethane	52		"	50.0		104	79.7-134				
Bromoform	51		"	50.0		102	70.5-141				
Bromomethane	48		"	50.0		96.2	43.9-147				
Carbon tetrachloride	59		"	50.0		119	78.1-138				
Chlorobenzene	51		"	50.0		102	80.4-125				
Chloroethane	50		"	50.0		99.5	55.8-140				
Chloroform	54		"	50.0		109	76.6-133				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BL20170 - EPA 5030B</b>											
<b>LCS (BL20170-BS1)</b>						Prepared & Analyzed: 12/05/2012					
Chloromethane	42		ug/L	50.0		83.4	48.8-115				
cis-1,2-Dichloroethylene	53		"	50.0		106	75.1-128				
cis-1,3-Dichloropropylene	51		"	50.0		102	74.5-128				
Dibromochloromethane	56		"	50.0		113	79.8-134				
Dibromomethane	51		"	50.0		101	79-130				
Dichlorodifluoromethane	41		"	50.0		81.3	47.1-101				
Ethyl Benzene	51		"	50.0		103	80.8-128				
Hexachlorobutadiene	50		"	50.0		101	64.8-128				
Isopropylbenzene	48		"	50.0		96.0	75.5-135				
Methyl tert-butyl ether (MTBE)	56		"	50.0		112	65.1-140				
Methylene chloride	50		"	50.0		100	61.3-120				
Naphthalene	52		"	50.0		104	62.3-148				
n-Butylbenzene	49		"	50.0		97.8	67.2-123				
n-Propylbenzene	47		"	50.0		94.0	70.5-127				
o-Xylene	50		"	50.0		100	75.9-122				
p- & m- Xylenes	100		"	100		103	77.7-127				
p-Isopropyltoluene	49		"	50.0		97.8	75.6-129				
sec-Butylbenzene	48		"	50.0		96.7	71.5-125				
Styrene	52		"	50.0		103	77.8-123				
tert-Butylbenzene	49		"	50.0		97.9	75.9-151				
Tetrachloroethylene	52		"	50.0		104	63.6-167				
Toluene	49		"	50.0		98.3	77-123				
trans-1,2-Dichloroethylene	53		"	50.0		106	76.3-139				
trans-1,3-Dichloropropylene	51		"	50.0		102	72.5-137				
Trichloroethylene	50		"	50.0		100	77.9-130				
Trichlorofluoromethane	56		"	50.0		112	57.4-133				
Vinyl Chloride	46		"	50.0		91.6	54.9-124				
Vinyl acetate	19		"	50.0		38.9	70-130	Low Bias			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>52.4</i>		<i>"</i>	<i>50.0</i>		<i>105</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.3</i>		<i>"</i>	<i>50.0</i>		<i>98.6</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>47.2</i>		<i>"</i>	<i>50.0</i>		<i>94.5</i>	<i>81.2-127</i>				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BL20170 - EPA 5030B</b>											
<b>LCS Dup (BL20170-BSD1)</b>						Prepared & Analyzed: 12/05/2012					
1,1,1,2-Tetrachloroethane	54		ug/L	50.0		107	82.3-130		1.37	21.1	
1,1,1-Trichloroethane	57		"	50.0		114	75.6-137		1.43	19.7	
1,1,2,2-Tetrachloroethane	49		"	50.0		97.0	71.3-131		4.04	20.8	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	61		"	50.0		121	71.1-129		1.91	21.7	
1,1,2-Trichloroethane	50		"	50.0		99.6	74.5-129		2.85	20.3	
1,1-Dichloroethane	52		"	50.0		104	79.6-132		0.0575	20.6	
1,1-Dichloroethylene	53		"	50.0		107	80.2-146		0.355	20	
1,1-Dichloropropylene	50		"	50.0		99.9	75-136		0.778	19.3	
1,2,3-Trichlorobenzene	55		"	50.0		110	66.1-136		9.13	21.6	
1,2,3-Trichloropropane	48		"	50.0		96.9	63-131		2.83	23.9	
1,2,4-Trichlorobenzene	55		"	50.0		111	70.6-136		7.98	21.7	
1,2,4-Trimethylbenzene	49		"	50.0		97.7	75.3-135		3.06	18.8	
1,2-Dibromo-3-chloropropane	55		"	50.0		111	58.9-140		6.55	27.7	
1,2-Dibromoethane	54		"	50.0		108	79-130		4.61	23	
1,2-Dichlorobenzene	51		"	50.0		101	76.1-122		3.73	19.8	
1,2-Dichloroethane	55		"	50.0		110	74.6-132		3.00	20.2	
1,2-Dichloropropane	47		"	50.0		93.3	76.9-129		0.619	20.7	
1,3,5-Trimethylbenzene	49		"	50.0		97.7	70.6-127		0.781	18.9	
1,3-Dichlorobenzene	50		"	50.0		101	77-124		3.92	19.2	
1,3-Dichloropropane	49		"	50.0		98.5	75.8-126		2.20	22.1	
1,4-Dichlorobenzene	51		"	50.0		101	76.6-125		3.99	18.6	
1,4-Dioxane	46		"	50.0		93.0	70-130		26.3	30	
2,2-Dichloropropane	56		"	50.0		111	69-133		0.198	19.8	
2-Butanone	47		"	50.0		94.9	70-130		4.64	30	
2-Chlorotoluene	48		"	50.0		96.4	66.3-119		1.80	21.6	
4-Chlorotoluene	49		"	50.0		98.4	69.2-127		2.84	19	
Acetone	35		"	50.0		69.2	70-130	Low Bias	11.7	30	
Benzene	52		"	50.0		104	76.2-129		0.785	19	
Bromobenzene	48		"	50.0		96.0	71.3-123		3.17	20.3	
Bromochloromethane	49		"	50.0		97.6	70.8-137		0.452	23.9	
Bromodichloromethane	52		"	50.0		105	79.7-134		0.593	21	
Bromoform	55		"	50.0		110	70.5-141		7.13	21.8	
Bromomethane	47		"	50.0		93.8	43.9-147		2.50	28.4	
Carbon tetrachloride	59		"	50.0		118	78.1-138		0.236	20.1	
Chlorobenzene	51		"	50.0		101	80.4-125		0.414	19.9	
Chloroethane	48		"	50.0		95.5	55.8-140		4.18	23.3	
Chloroform	55		"	50.0		110	76.6-133		0.895	20.3	
Chloromethane	43		"	50.0		86.3	48.8-115		3.47	24.5	
cis-1,2-Dichloroethylene	53		"	50.0		106	75.1-128		0.189	20.5	
cis-1,3-Dichloropropylene	52		"	50.0		103	74.5-128		1.07	19.9	
Dibromochloromethane	58		"	50.0		116	79.8-134		3.23	21.3	
Dibromomethane	51		"	50.0		101	79-130		0.0395	22.4	
Dichlorodifluoromethane	40		"	50.0		80.7	47.1-101		0.741	23.9	
Ethyl Benzene	51		"	50.0		103	80.8-128		0.273	19.2	
Hexachlorobutadiene	52		"	50.0		105	64.8-128		4.14	20.6	
Isopropylbenzene	48		"	50.0		96.3	75.5-135		0.333	20	
Methyl tert-butyl ether (MTBE)	57		"	50.0		115	65.1-140		2.38	23.6	
Methylene chloride	46		"	50.0		92.3	61.3-120		8.11	20.4	
Naphthalene	56		"	50.0		111	62.3-148		6.38	27.1	
n-Butylbenzene	51		"	50.0		101	67.2-123		3.48	19.1	
n-Propylbenzene	47		"	50.0		94.8	70.5-127		0.827	23.4	
o-Xylene	50		"	50.0		99.3	75.9-122		1.20	19.3	
p- & m- Xylenes	100		"	100		103	77.7-127		0.331	18.6	
p-Isopropyltoluene	49		"	50.0		98.8	75.6-129		0.997	19.1	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL20170 - EPA 5030B**

**LCS Dup (BL20170-BSD1)**

Prepared & Analyzed: 12/05/2012

sec-Butylbenzene	49		ug/L	50.0		98.0	71.5-125		1.31	18.9	
Styrene	52		"	50.0		105	77.8-123		1.62	20.9	
tert-Butylbenzene	50		"	50.0		99.7	75.9-151		1.78	20.9	
Tetrachloroethylene	51		"	50.0		103	63.6-167		1.08	27.7	
Toluene	49		"	50.0		98.3	77-123		0.0610	18.7	
trans-1,2-Dichloroethylene	51		"	50.0		103	76.3-139		2.67	19.5	
trans-1,3-Dichloropropylene	52		"	50.0		105	72.5-137		2.85	19.3	
Trichloroethylene	49		"	50.0		98.9	77.9-130		1.13	20.5	
Trichlorofluoromethane	56		"	50.0		111	57.4-133		0.771	21.4	
Vinyl Chloride	47		"	50.0		93.2	54.9-124		1.77	22.3	
Vinyl acetate	20		"	50.0		40.0	70-130	Low Bias	2.89	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.7</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>72.6-129</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.3</i>		<i>"</i>	<i>50.0</i>		<i>98.6</i>	<i>63.5-145</i>				
<i>Surrogate: Toluene-d8</i>	<i>47.0</i>		<i>"</i>	<i>50.0</i>		<i>93.9</i>	<i>81.2-127</i>				

**Batch BL20179 - EPA 5035B**

**Blank (BL20179-BLK1)**

Prepared: 12/05/2012 Analyzed: 12/06/2012

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	50	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	10	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BL20179 - EPA 5035B**

**Blank (BL20179-BLK1)**

Prepared: 12/05/2012 Analyzed: 12/06/2012

Chloroform	ND	5.0	ug/kg wet								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Vinyl acetate	ND	10	"								
Surrogate: 1,2-Dichloroethane-d4	54.4		ug/L	50.0		109	73-130				
Surrogate: p-Bromofluorobenzene	49.9		"	50.0		99.9	72-127				
Surrogate: Toluene-d8	46.3		"	50.0		92.7	84-117				



**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit		Level	Result	%REC	Limits			Limit	
Batch BL20179 - EPA 5035B											
LCS (BL20179-BS1)				Prepared & Analyzed: 12/05/2012							
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	72-132				
1,1,1-Trichloroethane	55		"	50.0		109	77-131				
1,1,2,2-Tetrachloroethane	46		"	50.0		92.4	68-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	59		"	50.0		119	75-143				
1,1,2-Trichloroethane	47		"	50.0		94.6	72-128				
1,1-Dichloroethane	50		"	50.0		100	78-133				
1,1-Dichloroethylene	51		"	50.0		103	71-142				
1,1-Dichloropropylene	48		"	50.0		96.9	77-124				
1,2,3-Trichlorobenzene	51		"	50.0		102	65-134				
1,2,3-Trichloropropane	47		"	50.0		93.2	65-127				
1,2,4-Trichlorobenzene	47		"	50.0		94.6	59-133				
1,2,4-Trimethylbenzene	45		"	50.0		90.6	68-128				
1,2-Dibromo-3-chloropropane	56		"	50.0		111	58-145				
1,2-Dibromoethane	50		"	50.0		100	73-128				
1,2-Dichlorobenzene	48		"	50.0		95.2	69-126				
1,2-Dichloroethane	53		"	50.0		106	78-131				
1,2-Dichloropropane	49		"	50.0		97.1	72-129				
1,3,5-Trimethylbenzene	46		"	50.0		91.2	67-125				
1,3-Dichlorobenzene	47		"	50.0		93.1	67-125				
1,3-Dichloropropane	47		"	50.0		93.1	73-126				
1,4-Dichlorobenzene	46		"	50.0		92.0	67-127				
1,4-Dioxane	8.2		"	50.0		16.5	10-265				
2,2-Dichloropropane	49		"	50.0		97.9	68-133				
2-Butanone	45		"	50.0		89.0	49-138				
2-Chlorotoluene	45		"	50.0		89.5	61-121				
4-Chlorotoluene	45		"	50.0		89.8	65-126				
Acetone	37		"	50.0		75.0	21-131				
Benzene	50		"	50.0		100	81-125				
Bromobenzene	45		"	50.0		90.9	65-125				
Bromochloromethane	47		"	50.0		93.6	78-127				
Bromodichloromethane	49		"	50.0		97.8	73-131				
Bromoform	52		"	50.0		105	66-137				
Bromomethane	45		"	50.0		90.6	55-144				
Carbon tetrachloride	57		"	50.0		114	74-137				
Chlorobenzene	48		"	50.0		95.1	75-127				
Chloroethane	46		"	50.0		92.1	65-138				
Chloroform	54		"	50.0		107	82-128				
Chloromethane	40		"	50.0		80.9	51-138				
cis-1,2-Dichloroethylene	51		"	50.0		102	77-130				
cis-1,3-Dichloropropylene	47		"	50.0		93.7	68-123				
Dibromochloromethane	55		"	50.0		110	73-136				
Dibromomethane	49		"	50.0		97.4	75-131				
Dichlorodifluoromethane	40		"	50.0		80.2	10-183				
Ethyl Benzene	48		"	50.0		96.2	75-130				
Hexachlorobutadiene	46		"	50.0		92.4	59-130				
Isopropylbenzene	45		"	50.0		90.4	68-135				
Methyl tert-butyl ether (MTBE)	55		"	50.0		110	76-136				
Methylene chloride	44		"	50.0		87.7	55-143				
Naphthalene	55		"	50.0		110	65-140				
n-Butylbenzene	46		"	50.0		91.5	63-123				
n-Propylbenzene	44		"	50.0		87.5	65-127				
o-Xylene	47		"	50.0		94.9	71-123				
p- & m- Xylenes	97		"	100		97.1	72-127				
p-Isopropyltoluene	46		"	50.0		92.0	69-128				

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BL20179 - EPA 5035B</b>											
<b>LCS (BL20179-BS1)</b>						Prepared & Analyzed: 12/05/2012					
sec-Butylbenzene	46		ug/L	50.0		91.5	69-125				
Styrene	49		"	50.0		98.6	74-127				
tert-Butylbenzene	46		"	50.0		92.4	59-164				
Tetrachloroethylene	52		"	50.0		104	65-151				
Toluene	47		"	50.0		94.9	72-127				
trans-1,2-Dichloroethylene	50		"	50.0		99.4	73-137				
trans-1,3-Dichloropropylene	48		"	50.0		95.0	67-131				
Trichloroethylene	47		"	50.0		94.5	73-129				
Trichlorofluoromethane	55		"	50.0		110	69-136				
Vinyl Chloride	44		"	50.0		88.1	58-132				
Vinyl acetate	19		"	50.0		37.5	10-84				
Surrogate: 1,2-Dichloroethane-d4	53.4		"	50.0		107	73-130				
Surrogate: p-Bromofluorobenzene	49.1		"	50.0		98.2	72-127				
Surrogate: Toluene-d8	47.1		"	50.0		94.2	84-117				
<b>LCS Dup (BL20179-BSD1)</b>						Prepared: 12/05/2012 Analyzed: 12/06/2012					
1,1,1,2-Tetrachloroethane	54		ug/L	50.0		108	72-132		6.21	30	
1,1,1-Trichloroethane	58		"	50.0		116	77-131		6.09	30	
1,1,2,2-Tetrachloroethane	46		"	50.0		92.8	68-129		0.389	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	62		"	50.0		124	75-143		4.17	30	
1,1,2-Trichloroethane	49		"	50.0		98.1	72-128		3.63	30	
1,1-Dichloroethane	54		"	50.0		107	78-133		6.52	30	
1,1-Dichloroethylene	55		"	50.0		111	71-142		7.26	30	
1,1-Dichloropropylene	52		"	50.0		104	77-124		6.74	30	
1,2,3-Trichlorobenzene	54		"	50.0		108	65-134		5.49	30	
1,2,3-Trichloropropane	47		"	50.0		94.6	65-127		1.53	30	
1,2,4-Trichlorobenzene	54		"	50.0		108	59-133		13.5	30	
1,2,4-Trimethylbenzene	47		"	50.0		94.5	68-128		4.23	30	
1,2-Dibromo-3-chloropropane	55		"	50.0		109	58-145		2.07	30	
1,2-Dibromoethane	52		"	50.0		104	73-128		4.11	30	
1,2-Dichlorobenzene	50		"	50.0		99.3	69-126		4.13	30	
1,2-Dichloroethane	56		"	50.0		112	78-131		6.03	30	
1,2-Dichloropropane	46		"	50.0		92.9	72-129		4.44	30	
1,3,5-Trimethylbenzene	48		"	50.0		95.3	67-125		4.33	30	
1,3-Dichlorobenzene	48		"	50.0		96.8	67-125		3.92	30	
1,3-Dichloropropane	48		"	50.0		96.4	73-126		3.48	30	
1,4-Dichlorobenzene	49		"	50.0		97.2	67-127		5.56	30	
1,4-Dioxane	56		"	50.0		113	10-265		149	30	Non-dir.
2,2-Dichloropropane	52		"	50.0		104	68-133		6.10	30	
2-Butanone	48		"	50.0		95.9	49-138		7.44	30	
2-Chlorotoluene	47		"	50.0		93.1	61-121		3.94	30	
4-Chlorotoluene	47		"	50.0		94.9	65-126		5.57	30	
Acetone	35		"	50.0		69.7	21-131		7.24	30	
Benzene	54		"	50.0		107	81-125		6.46	30	
Bromobenzene	47		"	50.0		93.6	65-125		2.90	30	
Bromochloromethane	50		"	50.0		101	78-127		7.13	30	
Bromodichloromethane	52		"	50.0		105	73-131		6.64	30	
Bromoform	52		"	50.0		104	66-137		0.517	30	
Bromomethane	47		"	50.0		94.1	55-144		3.81	30	
Carbon tetrachloride	61		"	50.0		121	74-137		6.26	30	
Chlorobenzene	50		"	50.0		100	75-127		5.14	30	
Chloroethane	49		"	50.0		98.7	65-138		6.94	30	
Chloroform	57		"	50.0		114	82-128		6.28	30	
Chloromethane	44		"	50.0		87.7	51-138		8.02	30	

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

## York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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## Batch BL20179 - EPA 5035B

## LCS Dup (BL20179-BSD1)

Prepared: 12/05/2012 Analyzed: 12/06/2012

cis-1,2-Dichloroethylene	55		ug/L	50.0		110	77-130		8.05	30	
cis-1,3-Dichloropropylene	49		"	50.0		98.1	68-123		4.59	30	
Dibromochloromethane	57		"	50.0		115	73-136		3.93	30	
Dibromomethane	51		"	50.0		101	75-131		4.04	30	
Dichlorodifluoromethane	42		"	50.0		83.4	10-183		3.91	30	
Ethyl Benzene	51		"	50.0		101	75-130		5.05	30	
Hexachlorobutadiene	51		"	50.0		103	59-130		10.7	30	
Isopropylbenzene	47		"	50.0		94.5	68-135		4.43	30	
Methyl tert-butyl ether (MTBE)	59		"	50.0		118	76-136		6.79	30	
Methylene chloride	47		"	50.0		93.2	55-143		6.08	30	
Naphthalene	58		"	50.0		117	65-140		6.33	30	
n-Butylbenzene	49		"	50.0		98.5	63-123		7.35	30	
n-Propylbenzene	46		"	50.0		92.2	65-127		5.25	30	
o-Xylene	50		"	50.0		99.7	71-123		4.95	30	
p- & m- Xylenes	100		"	100		102	72-127		4.57	30	
p-Isopropyltoluene	49		"	50.0		97.2	69-128		5.41	30	
sec-Butylbenzene	48		"	50.0		96.0	69-125		4.80	30	
Styrene	52		"	50.0		105	74-127		5.96	30	
tert-Butylbenzene	47		"	50.0		93.8	59-164		1.53	30	
Tetrachloroethylene	61		"	50.0		122	65-151		15.5	30	
Toluene	49		"	50.0		97.6	72-127		2.81	30	
trans-1,2-Dichloroethylene	53		"	50.0		107	73-137		7.09	30	
trans-1,3-Dichloropropylene	50		"	50.0		99.5	67-131		4.63	30	
Trichloroethylene	50		"	50.0		100	73-129		5.98	30	
Trichlorofluoromethane	58		"	50.0		116	69-136		5.52	30	
Vinyl Chloride	47		"	50.0		93.5	58-132		6.04	30	
Vinyl acetate	19		"	50.0		38.5	10-84		2.63	30	
Surrogate: 1,2-Dichloroethane-d4	54.7		"	50.0		109	73-130				
Surrogate: p-Bromofluorobenzene	49.0		"	50.0		98.0	72-127				
Surrogate: Toluene-d8	47.7		"	50.0		95.4	84-117				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BL20179 - EPA 5035B</b>											
<b>Matrix Spike (BL20179-MS1)</b>	<b>*Source sample: 12L0069-01 (B3-24")</b>						<b>Prepared: 12/05/2012 Analyzed: 12/06/2012</b>				
1,1,1,2-Tetrachloroethane	50		ug/L	50.0	ND	99.8	48-129				
1,1,1-Trichloroethane	52		"	50.0	ND	104	60-128				
1,1,2,2-Tetrachloroethane	44		"	50.0	ND	88.8	20-143				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0	ND	98.8	52-129				
1,1,2-Trichloroethane	47		"	50.0	ND	93.6	53-126				
1,1-Dichloroethane	50		"	50.0	ND	99.1	62-129				
1,1-Dichloroethylene	47		"	50.0	ND	93.8	50-138				
1,1-Dichloropropylene	43		"	50.0	ND	86.2	49-120				
1,2,3-Trichlorobenzene	31		"	50.0	ND	61.7	10-120				
1,2,3-Trichloropropane	47		"	50.0	ND	93.9	42-132				
1,2,4-Trichlorobenzene	30		"	50.0	ND	60.9	10-113				
1,2,4-Trimethylbenzene	39		"	50.0	ND	78.1	10-173				
1,2-Dibromo-3-chloropropane	52		"	50.0	ND	103	16-151				
1,2-Dibromoethane	46		"	50.0	ND	92.9	37-134				
1,2-Dichlorobenzene	39		"	50.0	ND	77.8	12-121				
1,2-Dichloroethane	49		"	50.0	ND	98.8	53-133				
1,2-Dichloropropane	44		"	50.0	ND	88.3	58-126				
1,3,5-Trimethylbenzene	40		"	50.0	ND	80.5	10-155				
1,3-Dichlorobenzene	37		"	50.0	ND	74.1	12-116				
1,3-Dichloropropane	40		"	50.0	ND	79.6	50-127				
1,4-Dichlorobenzene	36		"	50.0	ND	72.7	9-118				
1,4-Dioxane	3.8		"	50.0	2.8	1.98	10-249	Low Bias			
2,2-Dichloropropane	41		"	50.0	ND	81.9	47-119				
2-Butanone	41		"	50.0	ND	81.5	13-140				
2-Chlorotoluene	40		"	50.0	ND	79.5	24-115				
4-Chlorotoluene	38		"	50.0	ND	76.2	22-115				
Acetone	33		"	50.0	1.6	63.2	10-130				
Benzene	48		"	50.0	ND	95.7	52-127				
Bromobenzene	40		"	50.0	ND	80.6	27-119				
Bromochloromethane	44		"	50.0	ND	87.9	52-129				
Bromodichloromethane	48		"	50.0	ND	96.9	50-132				
Bromoform	48		"	50.0	ND	96.0	31-138				
Bromomethane	41		"	50.0	ND	81.3	20-141				
Carbon tetrachloride	51		"	50.0	ND	103	52-131				
Chlorobenzene	43		"	50.0	ND	85.5	36-125				
Chloroethane	44		"	50.0	ND	88.8	35-143				
Chloroform	51		"	50.0	ND	101	62-127				
Chloromethane	38		"	50.0	ND	76.1	36-128				
cis-1,2-Dichloroethylene	54		"	50.0	4.1	99.4	51-128				
cis-1,3-Dichloropropylene	42		"	50.0	ND	83.6	27-126				
Dibromochloromethane	51		"	50.0	ND	103	42-137				
Dibromomethane	45		"	50.0	ND	90.9	47-136				
Dichlorodifluoromethane	27		"	50.0	ND	53.1	10-143				
Ethyl Benzene	43		"	50.0	ND	86.2	32-131				
Hexachlorobutadiene	32		"	50.0	ND	63.8	10-109				
Isopropylbenzene	42		"	50.0	ND	83.3	21-143				
Methyl tert-butyl ether (MTBE)	53		"	50.0	ND	105	55-144				
Methylene chloride	47		"	50.0	ND	93.6	17-147				
Naphthalene	36		"	50.0	ND	71.4	10-142				
n-Butylbenzene	36		"	50.0	ND	71.6	10-116				
n-Propylbenzene	38		"	50.0	ND	76.3	70-130				
o-Xylene	43		"	50.0	ND	85.9	70-130				
p- & m- Xylenes	85		"	100	ND	84.6	70-130				
p-Isopropyltoluene	38		"	50.0	ND	77.0	70-130				

## Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BL20179 - EPA 5035B

Matrix Spike (BL20179-MS1)		*Source sample: 12L0069-01 (B3-24")				Prepared: 12/05/2012 Analyzed: 12/06/2012					
sec-Butylbenzene	39		ug/L	50.0	ND	78.9	12-129				
Styrene	42		"	50.0	ND	84.6	13-130				
tert-Butylbenzene	39		"	50.0	ND	78.2	20-149				
Tetrachloroethylene	550		"	50.0	100	900	26-179	High Bias			
Toluene	43		"	50.0	ND	86.7	30-138				
trans-1,2-Dichloroethylene	46		"	50.0	ND	92.0	46-132				
trans-1,3-Dichloropropylene	40		"	50.0	ND	79.1	20-132				
Trichloroethylene	59		"	50.0	11	96.4	31-152				
Trichlorofluoromethane	47		"	50.0	ND	94.9	50-129				
Vinyl Chloride	40		"	50.0	ND	79.4	41-124				
Vinyl acetate	0.0		"	50.0	ND		10-62	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	51.8		"	50.0		104	73-130				
Surrogate: p-Bromofluorobenzene	49.8		"	50.0		99.6	72-127				
Surrogate: Toluene-d8	47.8		"	50.0		95.7	84-117				

Matrix Spike Dup (BL20179-MSD1)		*Source sample: 12L0069-01 (B3-24")				Prepared: 12/05/2012 Analyzed: 12/06/2012					
1,1,1,2-Tetrachloroethane	47		ug/L	50.0	ND	93.7	48-129		6.30	33	
1,1,1-Trichloroethane	50		"	50.0	ND	101	60-128		2.58	30	
1,1,2,2-Tetrachloroethane	43		"	50.0	ND	85.1	20-143		4.23	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47		"	50.0	ND	94.2	52-129		4.73	31	
1,1,2-Trichloroethane	45		"	50.0	ND	90.7	53-126		3.10	40	
1,1-Dichloroethane	48		"	50.0	ND	95.5	62-129		3.72	36	
1,1-Dichloroethylene	46		"	50.0	ND	92.7	50-138		1.18	31	
1,1-Dichloropropylene	43		"	50.0	ND	86.0	49-120		0.209	28	
1,2,3-Trichlorobenzene	30		"	50.0	ND	59.5	10-120		3.63	47	
1,2,3-Trichloropropane	45		"	50.0	ND	90.1	42-132		4.22	48	
1,2,4-Trichlorobenzene	28		"	50.0	ND	55.4	10-113		9.53	52	
1,2,4-Trimethylbenzene	38		"	50.0	ND	75.4	10-173		3.54	242	
1,2-Dibromo-3-chloropropane	47		"	50.0	ND	94.9	16-151		8.16	54	
1,2-Dibromoethane	45		"	50.0	ND	90.3	37-134		2.86	39	
1,2-Dichlorobenzene	36		"	50.0	ND	72.8	12-121		6.53	52	
1,2-Dichloroethane	49		"	50.0	ND	97.9	53-133		0.894	32	
1,2-Dichloropropane	41		"	50.0	ND	81.6	58-126		7.87	37	
1,3,5-Trimethylbenzene	39		"	50.0	ND	77.5	10-155		3.80	62	
1,3-Dichlorobenzene	35		"	50.0	ND	69.9	12-116		5.75	51	
1,3-Dichloropropane	40		"	50.0	ND	80.0	50-127		0.501	36	
1,4-Dichlorobenzene	34		"	50.0	ND	67.9	9-118		6.80	52	
1,4-Dioxane	74		"	50.0	2.8	143	10-249		195	196	
2,2-Dichloropropane	40		"	50.0	ND	79.5	47-119		3.00	31	
2-Butanone	39		"	50.0	ND	78.4	13-140		3.85	67	
2-Chlorotoluene	37		"	50.0	ND	74.7	24-115		6.20	49	
4-Chlorotoluene	36		"	50.0	ND	71.4	22-115		6.56	39	
Acetone	34		"	50.0	1.6	65.1	10-130		3.06	150	
Benzene	47		"	50.0	ND	93.5	52-127		2.32	64	
Bromobenzene	38		"	50.0	ND	76.2	27-119		5.61	44	
Bromochloromethane	43		"	50.0	ND	86.4	52-129		1.79	30	
Bromodichloromethane	45		"	50.0	ND	89.8	50-132		7.69	37	
Bromoform	44		"	50.0	ND	88.3	31-138		8.36	51	
Bromomethane	39		"	50.0	ND	78.7	20-141		3.35	42	
Carbon tetrachloride	51		"	50.0	ND	101	52-131		1.45	31	
Chlorobenzene	42		"	50.0	ND	83.8	36-125		2.06	32	
Chloroethane	41		"	50.0	ND	81.6	35-143		8.45	40	
Chloroform	50		"	50.0	ND	99.1	62-127		2.18	29	
Chloromethane	35		"	50.0	ND	70.3	36-128		7.92	31	

**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BL20179 - EPA 5035B</b>											
<b>Matrix Spike Dup (BL20179-MSD1)</b>	<b>*Source sample: 12L0069-01 (B3-24")</b>						<b>Prepared: 12/05/2012 Analyzed: 12/06/2012</b>				
cis-1,2-Dichloroethylene	51		ug/L	50.0	4.1	93.9	51-128		5.65	30	
cis-1,3-Dichloropropylene	40		"	50.0	ND	79.0	27-126		5.66	39	
Dibromochloromethane	50		"	50.0	ND	100	42-137		2.55	41	
Dibromomethane	43		"	50.0	ND	86.2	47-136		5.35	41	
Dichlorodifluoromethane	27		"	50.0	ND	53.9	10-143		1.53	34	
Ethyl Benzene	43		"	50.0	ND	85.6	32-131		0.722	42	
Hexachlorobutadiene	30		"	50.0	ND	60.0	10-109		6.21	45	
Isopropylbenzene	41		"	50.0	ND	81.0	21-143		2.77	57	
Methyl tert-butyl ether (MTBE)	52		"	50.0	ND	104	55-144		1.15	47	
Methylene chloride	45		"	50.0	ND	90.9	17-147		2.97	49	
Naphthalene	33		"	50.0	ND	66.5	10-142		7.13	95	
n-Butylbenzene	35		"	50.0	ND	69.1	10-116		3.67	96	
n-Propylbenzene	37		"	50.0	ND	73.6	70-130		3.63	56	
o-Xylene	42		"	50.0	ND	83.8	70-130		2.45	51	
p- & m- Xylenes	84		"	100	ND	83.8	70-130		1.07	47	
p-Isopropyltoluene	37		"	50.0	ND	73.9	70-130		4.06	60	
sec-Butylbenzene	39		"	50.0	ND	77.6	12-129		1.64	56	
Styrene	41		"	50.0	ND	82.0	13-130		3.19	39	
tert-Butylbenzene	38		"	50.0	ND	76.8	20-149		1.81	79	
Tetrachloroethylene	470		"	50.0	100	736	26-179	High Bias	20.0	33	
Toluene	43		"	50.0	ND	85.4	30-138		1.56	50	
trans-1,2-Dichloroethylene	45		"	50.0	ND	89.6	46-132		2.58	34	
trans-1,3-Dichloropropylene	40		"	50.0	ND	79.5	20-132		0.580	39	
Trichloroethylene	53		"	50.0	11	84.5	31-152		13.2	33	
Trichlorofluoromethane	47		"	50.0	ND	94.9	50-129		0.0211	32	
Vinyl Chloride	38		"	50.0	ND	76.2	41-124		4.09	35	
Vinyl acetate	1.0		"	50.0	ND	2.02	10-62	Low Bias		82	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.5</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>73-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>72-127</i>				
<i>Surrogate: Toluene-d8</i>	<i>47.6</i>		<i>"</i>	<i>50.0</i>		<i>95.1</i>	<i>84-117</i>				

### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
12L0069-01	B3-24"	2 oz. WM Clear Glass Cool to 4° C
12L0069-02	B6-24"	2 oz. WM Clear Glass Cool to 4° C
12L0069-03	B7-24"	2 oz. WM Clear Glass Cool to 4° C
12L0069-04	SWW-12"	2 oz. WM Clear Glass Cool to 4° C
12L0069-05	SWW-24"	2 oz. WM Clear Glass Cool to 4° C
12L0069-06	NWW-10"	2 oz. WM Clear Glass Cool to 4° C
12L0069-07	NWW-25"	2 oz. WM Clear Glass Cool to 4° C
12L0069-08	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
12L0069-09	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

### Notes and Definitions

VOA-CONTNON-COMPLIANT- the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A or NYSDOH ELAP. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A.

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); therefore, the result is an estimated concentration.

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

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 MDL, with values between the MDL and the RL being "J" flagged as estimated results.

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## 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 unless superseded by written contract.

York Project No. 12L0069

Client Information		Report To:		Invoice To:		Client Project ID		Turn-Around Time		Report Type/Deliverables					
MID-HUDSON GEOSCIENCES 1003 N.Y. ROUTE 44/55 P.O. BOX 332 CLINTONDALE, NY 12515-0332		Company: <u>Amey's</u> Address: <u>260 Rt 211 East</u> <u>Middleton, NY 10940</u> Phone: <u>845 343 0111 x 102</u> Attention: <u>Mr. Erez Halevy</u> E-Mail Address: <u>erezh19@gmail.com</u>		Address: <u>260 Rt 211 East</u> <u>Middleton, NY 10940</u> Phone: <u>845 343 0111 x 102</u> Attention: <u>Mr. Erez Halevy</u> E-Mail Address: <u>erezh19@gmail.com</u>		Purchase Order No. <u>New York</u>		24 hr 48 hr 72 hr 5 Day Standard <input checked="" type="checkbox"/>		Summary Results Only <u>NY</u> <u>CLP</u> RCP Package <u>ASP B Pkg</u> ASPA Pkg <u>Excel format</u> EDD <u>OTHER</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.		Matrix Codes S - soil Other - specify (oil, etc.) W/W - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Volatiles TICs Site Spec. SPL Per TCLP Benzene MTBE TCL list TAGM CT RCP Arom. Halog. App. IX 802.1B list		Semi-Vols. 8270 or 625 STARS BN Only Acids Only PAH TAGM CT RCP TCL list TICs App. IX SPL Per TCLP TCLP BNA		Metals RCRA8 PPI3 TAL CTI5 Total Dissolved SPL Per TCLP TCLP Herb Chlordane 608 Pest TCLP BNA		Full Lists Prt. Poll. TCL Organics TAL MacCN Full TCLP Full App. IX Part 360 Hume Part 360 Baseline Part 360 (Lead) NYCDEP Sewer NYSDJECover TAGM		Miscellaneous Parameters Color Phenols TKN Tox Nitrogen Ammonia-N BOD5 Chloride Phosphate BOD28 COD Tot. Phos. Oil & Grease F.O.G. pH MBAS TPH-IR		Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	
Name (printed) <u>Katharine J. Bein Kafner</u>		Date Sampled <u>11/29/12</u>		Sample Matrix <u>S</u>		Choose Analyses Needed from the Menu Above and Enter Below		Container Description(s) <u>2oz glass jar</u>		Temperature on Receipt <u>4.4 °C</u>					
Sample Identification <u>B3-24"</u>		<u>11/29/12</u>		<u>S</u>		<u>8260 full</u>		<u>4°C</u>		<u>4°C</u>					
<u>B6-24"</u>		<u>11/29/12</u>		<u>S</u>		<u>8260 full</u>		<u>4°C</u>		<u>4°C</u>					
<u>B7-24"</u>		<u>11/29/12</u>		<u>S</u>		<u>8260 full</u>		<u>4°C</u>		<u>4°C</u>					
<u>SWW-12"</u>		<u>11/29/12</u>		<u>S</u>		<u>8260 full</u>		<u>4°C</u>		<u>4°C</u>					
<u>SWW-24"</u>		<u>11/29/12</u>		<u>S</u>		<u>8260 full</u>		<u>4°C</u>		<u>4°C</u>					
<u>NWW-10"</u>		<u>11/29/12</u>		<u>S</u>		<u>8260 full</u>		<u>4°C</u>		<u>4°C</u>					
<u>NWW-25"</u>		<u>11/29/12</u>		<u>S</u>		<u>8260 full</u>		<u>4°C</u>		<u>4°C</u>					
<u>Trip Blank</u>		<u>11/29/12</u>		<u>distilled water</u>		<u>8260 full</u>		<u>4°C</u>		<u>4°C</u>					
<u>Field Blank</u>		<u>11/29/12</u>		<u>distilled water</u>		<u>8260 full</u>		<u>4°C</u>		<u>4°C</u>					
Comments <u>Chemical of concern PCE</u>		Preservation Check those Applicable <u>4°C</u> <u>Prozen</u> <u>HCl</u> <u>MeOH</u>		Samples Relinquished By <u>Katharine Bein Kafner</u> Date/Time <u>12/3/12 8AM</u>		Samples Received By <u>Cherie</u> Date/Time <u>12-3-12 12:05</u>		Samples Relinquished By <u>Cherie</u> Date/Time <u>12-3-12 1530</u>		Samples Received in LAB by <u>Cherie</u> Date/Time <u>12-3-12 1530</u>					

**Appendix B-2  
Laboratory Reports  
For VES & Groundwater Sampling 2017  
York Analytical Laboratories  
for  
American Cleaners Middletown  
Orange County, New York**

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**Remedial Investigation/  
Alternative Analysis Report:  
Operable Unit #2 Groundwater  
NYSDEC Site Number: V-00461-3**

**Prepared for:**  
AMERICAN CLEANERS, Inc.

360 Route 211 East  
Middletown, NY 10940

**Prepared by:**  
Jansen Engineering, PLLC  
72 Coburn Drive  
Poughkeepsie, NY 12603  
(845) 505-0324  
and  
Mid-Hudson Geosciences  
1003 Route 44/55, PO Box 32  
Clintondale, NY 12615-0032  
(845) 883-5726

**JANUARY 2018**

Table 1B  
List of Samples for Data Validation  
American Cleaners, Middletown, NY  
Year: 2017  
All Lab Reports are from York Analytical Laboratories

Date of Sampling	Report ID	Report Date	Type of Sampling	No Samples	No Blanks	No MS/D	Method	ASP_B
4/13/17	17D0581	4/25/2017	ACM GW part 1	3 wells, 1 dup	TB, EB	0	8260C	yes
6/6/17	17F0052	6/12/2017	ACM GW part 2	3 wells, 1 dup	TB, EB	0	8260C	yes
4/12/17	17D0577	4/21/17	Sub Slab Vapor Ex	1 point	0	0	TO-15	yes
6/20/17	17F0808	6/28/17	Sub Slab VES	4 points	0	9	TO-15	yes



# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 04/21/2017  
**Client Project ID: AC Middletown VES**  
York Project (SDG) No.: 17D0577

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](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371

132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 04/21/2017  
Client Project ID: AC Middletown VES  
York Project (SDG) No.: 17D0577

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

## 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 14, 2017 and listed below. The project was identified as your project: **AC Middletown VES**.

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>
17D0577-01	Canister ID 16695 Flow Controller F8	Vapor Extraction	04/12/2017	04/14/2017

## General Notes for York Project (SDG) No.: 17D0577

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: 04/21/2017





## Sample Information

**Client Sample ID:** Canister ID 16695 Flow Controller F8

**York Sample ID:** 17D0577-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

17D0577

AC Middletown VES

Vapor Extraction

April 12, 2017 3:00 pm

04/14/2017

### 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	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	11	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	15	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	11	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.8	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.7	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.5	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	15	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.8	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.9	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	13	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.5	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	13	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	8.9	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	14	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
78-93-3	2-Butanone	7.4		ug/m <sup>3</sup>	5.7	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS





## Sample Information

**Client Sample ID:** Canister ID 16695 Flow Controller F8

**York Sample ID:** 17D0577-01

York Project (SDG) No.  
17D0577

Client Project ID  
AC Middletown VES

Matrix  
Vapor Extraction

Collection Date/Time  
April 12, 2017 3:00 pm

Date Received  
04/14/2017

### 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
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	16	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	30	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.9	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
67-64-1	<b>Acetone</b>	<b>23</b>		ug/m <sup>3</sup>	9.2	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.2	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.2	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	10	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	13	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	20	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.5	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	6.0	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.0	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.9	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.1	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.4	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
74-87-3	<b>Chloromethane</b>	<b>8.0</b>		ug/m <sup>3</sup>	4.0	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>39</b>		ug/m <sup>3</sup>	7.7	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.8	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.6	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	16	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.5	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	14	19.31	EPA TO-15 Certifications:	04/17/2017 18:21	04/17/2017 19:55	LDS



## Sample Information

**Client Sample ID:** Canister ID 16695 Flow Controller F8

**York Sample ID:** 17D0577-01

York Project (SDG) No.  
17D0577

Client Project ID  
AC Middletown VES

Matrix  
Vapor Extraction

Collection Date/Time  
April 12, 2017 3:00 pm

Date Received  
04/14/2017

### 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
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.4	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	21	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.5	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.9	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	7.0	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	13	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.9	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.8	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.4	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	17	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.5	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
115-07-1	* Propylene	8.0		ug/m <sup>3</sup>	3.3	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.2	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
127-18-4	Tetrachloroethylene	93000		ug/m <sup>3</sup>	130	772.4	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/18/2017 08:30	04/20/2017 13:09	LDS
109-99-9	* Tetrahydrofuran	29		ug/m <sup>3</sup>	11	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	7.3	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.7	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.8	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
79-01-6	Trichloroethylene	70		ug/m <sup>3</sup>	2.6	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.8	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.4	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	04/17/2017 18:21	04/17/2017 19:55	LDS





## Sample Information

**Client Sample ID:** Canister ID 16695 Flow Controller F8

**York Sample ID:** 17D0577-01

York Project (SDG) No.  
17D0577

Client Project ID  
AC Middletown VES

Matrix  
Vapor Extraction

Collection Date/Time  
April 12, 2017 3:00 pm

Date Received  
04/14/2017

### 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
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.9	19.31	EPA TO-15	04/17/2017 18:21	04/17/2017 19:55	LDS
Surrogate Recoveries		Result		Acceptance Range						
460-00-4	Surrogate: p-Bromofluorobenzene	94.8 %		72-118						

Certifications: NELAC-NY10854-Queens,NJDEP-Queens





## Notes and Definitions

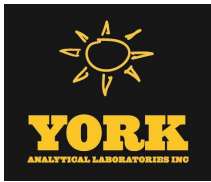
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
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.

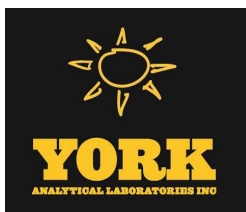
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**NOTE:** York's Std. Terms & Conditions are listed on the back side of this document.

York Project No. 17D0577

Comments	<p>pce is chemical of concern.</p>	<p>Katherine G. Blinkey</p> <p>Samples Relinquished By</p>	<p>4/17</p> <p>Date/Time</p>	<p>10:25</p>
		<p>JAMES GAMES</p> <p>Samples Relinquished By</p>	<p>4/17</p> <p>Date/Time</p>	<p>21:45</p>
		<p>Chic</p> <p>Samples Received By</p>	<p>4-14-17</p> <p>Date/Time</p>	<p>10:25</p>
		<p>LD</p> <p>Samples Received In LAB by</p>	<p>4-14-17</p> <p>Date/Time</p>	<p>21:45</p>



# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 04/25/2017  
**Client Project ID: AC Middletown GW part 1**  
York Project (SDG) No.: 17D0581

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](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371



132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 04/25/2017  
Client Project ID: AC Middletown GW part 1  
York Project (SDG) No.: 17D0581

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

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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 April 14, 2017 and listed below. The project was identified as your project: **AC Middletown GW part 1**.

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>
17D0581-01	MW25	Water	04/13/2017	04/14/2017
17D0581-02	MW25 Duplicate	Water	04/13/2017	04/14/2017
17D0581-03	MW26	Water	04/13/2017	04/14/2017
17D0581-04	T5	Water	04/13/2017	04/14/2017
17D0581-05	Trip Blank	Water	04/13/2017	04/14/2017
17D0581-06	Equip Blank	Water	04/13/2017	04/14/2017

## **General Notes for York Project (SDG) No.: 17D0581**

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:** 04/25/2017







## Sample Information

**Client Sample ID:** MW25

**York Sample ID:** 17D0581-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17D0581

AC Middletown GW part 1

Water

April 13, 2017 12:35 pm

04/14/2017

### 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	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK



## Sample Information

**Client Sample ID:** MW25

**York Sample ID:** 17D0581-01

York Project (SDG) No.  
17D0581

Client Project ID  
AC Middletown GW part 1

Matrix  
Water

Collection Date/Time  
April 13, 2017 12:35 pm

Date Received  
04/14/2017

### 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
78-93-3	2-Butanone	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
95-49-8	2-Chlorotoluene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
106-43-4	4-Chlorotoluene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
67-64-1	Acetone	ND		ug/L	100	200	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
71-43-2	Benzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
108-86-1	Bromobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
74-97-5	Bromochloromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
75-27-4	Bromodichloromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
75-25-2	Bromoform	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
74-83-9	Bromomethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
56-23-5	Carbon tetrachloride	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
108-90-7	Chlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
75-00-3	Chloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
67-66-3	Chloroform	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
74-87-3	Chloromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
124-48-1	Dibromochloromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
74-95-3	Dibromomethane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
100-41-4	Ethyl Benzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
98-82-8	Isopropylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK



## Sample Information

**Client Sample ID:** MW25

**York Sample ID:** 17D0581-01

York Project (SDG) No.  
17D0581

Client Project ID  
AC Middletown GW part 1

Matrix  
Water

Collection Date/Time  
April 13, 2017 12:35 pm

Date Received  
04/14/2017

### 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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
75-09-2	Methylene chloride	ND		ug/L	50	200	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
91-20-3	Naphthalene	ND		ug/L	50	200	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
104-51-8	n-Butylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
103-65-1	n-Propylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
95-47-6	o-Xylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	100	200	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
135-98-8	sec-Butylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
100-42-5	Styrene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
98-06-6	tert-Butylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
127-18-4	<b>Tetrachloroethylene</b>	<b>570</b>		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
108-88-3	Toluene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
79-01-6	Trichloroethylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
108-05-4	Vinyl acetate	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/24/2017 07:30	04/24/2017 19:26	BK
75-01-4	Vinyl Chloride	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 19:26	BK
1330-20-7	Xylenes, Total	ND		ug/L	150	300	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/24/2017 07:30	04/24/2017 19:26	BK
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	110 %	69-130								
2037-26-5	Surrogate: Toluene-d8	101 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	94.0 %	79-122								



## Sample Information

**Client Sample ID:** MW25 Duplicate

**York Sample ID:** 17D0581-02

York Project (SDG) No.

17D0581

Client Project ID

AC Middletown GW part 1

Matrix

Water

Collection Date/Time

April 13, 2017 12:40 pm

Date Received

04/14/2017

### 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	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
78-93-3	2-Butanone	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK



## Sample Information

**Client Sample ID:** MW25 Duplicate

**York Sample ID:** 17D0581-02

York Project (SDG) No.  
17D0581

Client Project ID  
AC Middletown GW part 1

Matrix  
Water

Collection Date/Time  
April 13, 2017 12:40 pm

Date Received  
04/14/2017

### 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
95-49-8	2-Chlorotoluene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
106-43-4	4-Chlorotoluene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
67-64-1	Acetone	ND		ug/L	100	200	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
71-43-2	Benzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
108-86-1	Bromobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
74-97-5	Bromochloromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
75-27-4	Bromodichloromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
75-25-2	Bromoform	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
74-83-9	Bromomethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
56-23-5	Carbon tetrachloride	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
108-90-7	Chlorobenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
75-00-3	Chloroethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
67-66-3	Chloroform	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
74-87-3	Chloromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
124-48-1	Dibromochloromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
74-95-3	Dibromomethane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
100-41-4	Ethyl Benzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
98-82-8	Isopropylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK



## Sample Information

**Client Sample ID:** MW25 Duplicate

**York Sample ID:** 17D0581-02

York Project (SDG) No.  
17D0581

Client Project ID  
AC Middletown GW part 1

Matrix  
Water

Collection Date/Time  
April 13, 2017 12:40 pm

Date Received  
04/14/2017

### 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
75-09-2	Methylene chloride	ND		ug/L	50	200	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
91-20-3	Naphthalene	ND		ug/L	50	200	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
104-51-8	n-Butylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
103-65-1	n-Propylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
95-47-6	o-Xylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	100	200	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
135-98-8	sec-Butylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
100-42-5	Styrene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
98-06-6	tert-Butylbenzene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
127-18-4	<b>Tetrachloroethylene</b>	<b>570</b>		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
108-88-3	Toluene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
79-01-6	Trichloroethylene	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
108-05-4	Vinyl acetate	ND		ug/L	50	100	20	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/24/2017 07:30	04/24/2017 20:09	BK
75-01-4	Vinyl Chloride	ND		ug/L	50	100	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:09	BK
1330-20-7	Xylenes, Total	ND		ug/L	150	300	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/24/2017 07:30	04/24/2017 20:09	BK
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %	69-130								
2037-26-5	Surrogate: Toluene-d8	105 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	85.6 %	79-122								



## Sample Information

**Client Sample ID:** MW26

**York Sample ID:** 17D0581-03

York Project (SDG) No.

17D0581

Client Project ID

AC Middletown GW part 1

Matrix

Water

Collection Date/Time

April 13, 2017 2:00 pm

Date Received

04/14/2017

### 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	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
78-93-3	2-Butanone	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK





## Sample Information

**Client Sample ID:** MW26

**York Sample ID:** 17D0581-03

York Project (SDG) No.  
17D0581

Client Project ID  
AC Middletown GW part 1

Matrix  
Water

Collection Date/Time  
April 13, 2017 2:00 pm

Date Received  
04/14/2017

### 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
95-49-8	2-Chlorotoluene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
106-43-4	4-Chlorotoluene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
67-64-1	Acetone	ND		ug/L	500	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
71-43-2	Benzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
108-86-1	Bromobenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
74-97-5	Bromochloromethane	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
75-27-4	Bromodichloromethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
75-25-2	Bromoform	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
74-83-9	Bromomethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
56-23-5	Carbon tetrachloride	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
108-90-7	Chlorobenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
75-00-3	Chloroethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
67-66-3	Chloroform	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
74-87-3	Chloromethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
124-48-1	Dibromochloromethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
74-95-3	Dibromomethane	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
100-41-4	Ethyl Benzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
98-82-8	Isopropylbenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK





## Sample Information

**Client Sample ID:** MW26

**York Sample ID:** 17D0581-03

York Project (SDG) No.  
17D0581

Client Project ID  
AC Middletown GW part 1

Matrix  
Water

Collection Date/Time  
April 13, 2017 2:00 pm

Date Received  
04/14/2017

### 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
75-09-2	Methylene chloride	ND		ug/L	250	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
91-20-3	Naphthalene	ND		ug/L	250	1000	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
104-51-8	n-Butylbenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
103-65-1	n-Propylbenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
95-47-6	o-Xylene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	500	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
135-98-8	sec-Butylbenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
100-42-5	Styrene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
98-06-6	tert-Butylbenzene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
127-18-4	<b>Tetrachloroethylene</b>	<b>1800</b>		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
108-88-3	Toluene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
79-01-6	Trichloroethylene	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
108-05-4	Vinyl acetate	ND		ug/L	250	500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/21/2017 13:54	04/22/2017 12:37	BK
75-01-4	Vinyl Chloride	ND		ug/L	250	500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 12:37	BK
1330-20-7	Xylenes, Total	ND		ug/L	750	1500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/21/2017 13:54	04/22/2017 12:37	BK
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %	69-130								
2037-26-5	Surrogate: Toluene-d8	94.3 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	85.8 %	79-122								



## Sample Information

**Client Sample ID:** T5

**York Sample ID:** 17D0581-04

York Project (SDG) No.

17D0581

Client Project ID

AC Middletown GW part 1

Matrix

Water

Collection Date/Time

April 13, 2017 3:05 pm

Date Received

04/14/2017

### 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	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK



## Sample Information

**Client Sample ID:** T5

**York Sample ID:** 17D0581-04

York Project (SDG) No.  
17D0581

Client Project ID  
AC Middletown GW part 1

Matrix  
Water

Collection Date/Time  
April 13, 2017 3:05 pm

Date Received  
04/14/2017

### 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
95-49-8	2-Chlorotoluene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
106-43-4	4-Chlorotoluene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
67-64-1	Acetone	ND		ug/L	50	100	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
108-86-1	Bromobenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
74-97-5	Bromochloromethane	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
75-27-4	Bromodichloromethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
75-25-2	Bromoform	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
74-83-9	Bromomethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
75-00-3	Chloroethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
74-87-3	Chloromethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
124-48-1	Dibromochloromethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
74-95-3	Dibromomethane	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
100-41-4	Ethyl Benzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
98-82-8	Isopropylbenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK



## Sample Information

**Client Sample ID:** T5

**York Sample ID:** 17D0581-04

York Project (SDG) No.  
17D0581

Client Project ID  
AC Middletown GW part 1

Matrix  
Water

Collection Date/Time  
April 13, 2017 3:05 pm

Date Received  
04/14/2017

### 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
75-09-2	Methylene chloride	ND		ug/L	25	100	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
91-20-3	Naphthalene	ND		ug/L	25	100	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
104-51-8	n-Butylbenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
103-65-1	n-Propylbenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
95-47-6	o-Xylene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	50	100	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
135-98-8	sec-Butylbenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
100-42-5	Styrene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
98-06-6	tert-Butylbenzene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
127-18-4	<b>Tetrachloroethylene</b>	<b>340</b>		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
108-88-3	Toluene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
108-05-4	Vinyl acetate	ND		ug/L	25	50	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/24/2017 07:30	04/24/2017 20:51	BK
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/24/2017 07:30	04/24/2017 20:51	BK
1330-20-7	Xylenes, Total	ND		ug/L	75	150	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/24/2017 07:30	04/24/2017 20:51	BK
<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	102 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	86.8 %	79-122								



## Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 17D0581-05

York Project (SDG) No.

17D0581

Client Project ID

AC Middletown GW part 1

Matrix

Water

Collection Date/Time

April 13, 2017 4:00 pm

Date Received

04/14/2017

### 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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK



## Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 17D0581-05

York Project (SDG) No.

17D0581

Client Project ID

AC Middletown GW part 1

Matrix

Water

Collection Date/Time

April 13, 2017 4:00 pm

Date Received

04/14/2017

### 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
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
67-64-1	Acetone	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK



## Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 17D0581-05

York Project (SDG) No.  
17D0581

Client Project ID  
AC Middletown GW part 1

Matrix  
Water

Collection Date/Time  
April 13, 2017 4:00 pm

Date Received  
04/14/2017

### 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
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/21/2017 13:54	04/22/2017 06:16	BK
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 06:16	BK
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/21/2017 13:54	04/22/2017 06:16	BK
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	93.9 %	69-130								
2037-26-5	Surrogate: Toluene-d8	95.2 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	87.0 %	79-122								





## Sample Information

**Client Sample ID:** Equip Blank

**York Sample ID:** 17D0581-06

York Project (SDG) No.

17D0581

Client Project ID

AC Middletown GW part 1

Matrix

Water

Collection Date/Time

April 13, 2017 3:00 pm

Date Received

04/14/2017

### 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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK





## Sample Information

**Client Sample ID:** Equip Blank

**York Sample ID:** 17D0581-06

York Project (SDG) No.

17D0581

Client Project ID

AC Middletown GW part 1

Matrix

Water

Collection Date/Time

April 13, 2017 3:00 pm

Date Received

04/14/2017

### 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
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
67-64-1	Acetone	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK



## Sample Information

**Client Sample ID:** Equip Blank

**York Sample ID:** 17D0581-06

York Project (SDG) No.

17D0581

Client Project ID

AC Middletown GW part 1

Matrix

Water

Collection Date/Time

April 13, 2017 3:00 pm

Date Received

04/14/2017

### 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
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	04/21/2017 13:54	04/22/2017 05:34	BK
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/21/2017 13:54	04/22/2017 05:34	BK
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/21/2017 13:54	04/22/2017 05:34	BK
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	93.1 %	69-130								
2037-26-5	Surrogate: Toluene-d8	92.6 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	82.7 %	79-122								



## Analytical Batch Summary

**Batch ID:** BD71042

**Preparation Method:** EPA 5030B

**Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
17D0581-03	MW26	04/21/17
17D0581-05	Trip Blank	04/21/17
17D0581-06	Equip Blank	04/21/17
BD71042-BLK1	Blank	04/21/17
BD71042-BS1	LCS	04/21/17
BD71042-BSD1	LCS Dup	04/21/17

**Batch ID:** BD71096

**Preparation Method:** EPA 5030B

**Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
17D0581-01	MW25	04/24/17
17D0581-02	MW25 Duplicate	04/24/17
17D0581-04	T5	04/24/17



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD71042 - EPA 5030B</b>											
<b>Blank (BD71042-BLK1)</b>											
Prepared: 04/21/2017 Analyzed: 04/22/2017											
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	5.0	"								
2-Chlorotoluene	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD71042 - EPA 5030B</b>											
<b>Blank (BD71042-BLK1)</b>											
Prepared: 04/21/2017 Analyzed: 04/22/2017											
o-Xylene	ND	5.0	ug/L								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl acetate	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: 1,2-Dichloroethane-d4	9.55		"	10.0		95.5	69-130				
Surrogate: Toluene-d8	9.97		"	10.0		99.7	81-117				
Surrogate: p-Bromofluorobenzene	8.84		"	10.0		88.4	79-122				
<b>LCS (BD71042-BS1)</b>											
Prepared: 04/21/2017 Analyzed: 04/22/2017											
1,1,1,2-Tetrachloroethane	10.3		ug/L	10.0		103	70-132				
1,1,1-Trichloroethane	10.3		"	10.0		103	68-138				
1,1,2,2-Tetrachloroethane	8.79		"	10.0		87.9	73-132				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.0		"	10.0		120	67-136				
1,1,2-Trichloroethane	10.6		"	10.0		106	79-125				
1,1-Dichloroethane	9.95		"	10.0		99.5	78-128				
1,1-Dichloroethylene	10.2		"	10.0		102	68-134				
1,1-Dichloropropylene	10.8		"	10.0		108	74-130				
1,2,3-Trichlorobenzene	10.5		"	10.0		105	77-140				
1,2,3-Trichloropropane	6.71		"	10.0		67.1	79-127	Low Bias			
1,2,4-Trichlorobenzene	9.85		"	10.0		98.5	75-141				
1,2,4-Trimethylbenzene	8.14		"	10.0		81.4	78-127				
1,2-Dibromo-3-chloropropane	6.66		"	10.0		66.6	60-150				
1,2-Dibromoethane	10.0		"	10.0		100	86-123				
1,2-Dichlorobenzene	9.74		"	10.0		97.4	79-125				
1,2-Dichloroethane	10.6		"	10.0		106	69-133				
1,2-Dichloropropane	8.72		"	10.0		87.2	76-124				
1,3,5-Trimethylbenzene	6.56		"	10.0		65.6	78-128	Low Bias			
1,3-Dichlorobenzene	9.81		"	10.0		98.1	81-124				
1,3-Dichloropropane	9.77		"	10.0		97.7	79-125				
1,4-Dichlorobenzene	9.92		"	10.0		99.2	82-124				
2,2-Dichloropropane	6.41		"	10.0		64.1	61-139				
2-Butanone	11.5		"	10.0		115	44-169				
2-Chlorotoluene	12.9		"	10.0		129	74-130				
4-Chlorotoluene	8.55		"	10.0		85.5	75-127				
Acetone	8.11		"	10.0		81.1	29-163				
Benzene	13.6		"	10.0		136	72-134	High Bias			
Bromobenzene	7.87		"	10.0		78.7	74-129				
Bromochloromethane	10.2		"	10.0		102	69-134				
Bromodichloromethane	11.6		"	10.0		116	76-127				
Bromoform	10.1		"	10.0		101	77-137				



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BD71042 - EPA 5030B

#### LCS (BD71042-BS1)

Prepared: 04/21/2017 Analyzed: 04/22/2017

Bromomethane	10.2		ug/L	10.0		102	50-156				
Carbon tetrachloride	10.8		"	10.0		108	62-145				
Chlorobenzene	9.56		"	10.0		95.6	85-119				
Chloroethane	10.2		"	10.0		102	49-143				
Chloroform	11.0		"	10.0		110	74-131				
Chloromethane	8.70		"	10.0		87.0	43-134				
cis-1,2-Dichloroethylene	14.0		"	10.0		140	73-134	High Bias			
cis-1,3-Dichloropropylene	9.06		"	10.0		90.6	77-128				
Dibromochloromethane	10.6		"	10.0		106	79-130				
Dibromomethane	10.1		"	10.0		101	78-128				
Dichlorodifluoromethane	11.7		"	10.0		117	38-139				
Ethyl Benzene	9.56		"	10.0		95.6	80-129				
Hexachlorobutadiene	9.79		"	10.0		97.9	72-141				
Isopropylbenzene	7.82		"	10.0		78.2	76-128				
Methyl tert-butyl ether (MTBE)	13.0		"	10.0		130	64-142				
Methylene chloride	9.39		"	10.0		93.9	56-142				
Naphthalene	10.0		"	10.0		100	79-144				
n-Butylbenzene	7.72		"	10.0		77.2	74-132				
n-Propylbenzene	8.24		"	10.0		82.4	72-135				
o-Xylene	9.69		"	10.0		96.9	81-123				
p- & m- Xylenes	18.0		"	20.0		90.2	79-130				
p-Isopropyltoluene	8.10		"	10.0		81.0	80-127				
sec-Butylbenzene	7.97		"	10.0		79.7	78-127				
Styrene	9.77		"	10.0		97.7	82-124				
tert-Butylbenzene	7.61		"	10.0		76.1	75-131				
Tetrachloroethylene	15.3		"	10.0		153	78-133	High Bias			
Toluene	11.9		"	10.0		119	83-122				
trans-1,2-Dichloroethylene	9.35		"	10.0		93.5	59-145				
trans-1,3-Dichloropropylene	8.98		"	10.0		89.8	74-131				
Trichloroethylene	9.88		"	10.0		98.8	81-125				
Trichlorofluoromethane	11.9		"	10.0		119	61-144				
Vinyl acetate	8.17		"	10.0		81.7	32-165				
Vinyl Chloride	9.30		"	10.0		93.0	42-136				
Surrogate: 1,2-Dichloroethane-d4	9.17		"	10.0		91.7	69-130				
Surrogate: Toluene-d8	9.46		"	10.0		94.6	81-117				
Surrogate: p-Bromofluorobenzene	9.65		"	10.0		96.5	79-122				



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD71042 - EPA 5030B</b>											
<b>LCS Dup (BD71042-BSD1)</b>						Prepared: 04/21/2017 Analyzed: 04/22/2017					
1,1,1,2-Tetrachloroethane	10.7		ug/L	10.0		107	70-132		3.80	30	
1,1,1-Trichloroethane	10.0		"	10.0		100	68-138		2.75	30	
1,1,2,2-Tetrachloroethane	8.67		"	10.0		86.7	73-132		1.37	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.9		"	10.0		119	67-136		0.502	30	
1,1,2-Trichloroethane	10.6		"	10.0		106	79-125		0.0946	30	
1,1-Dichloroethane	9.62		"	10.0		96.2	78-128		3.37	30	
1,1-Dichloroethylene	10.0		"	10.0		100	68-134		2.27	30	
1,1-Dichloropropylene	10.4		"	10.0		104	74-130		3.30	30	
1,2,3-Trichlorobenzene	11.1		"	10.0		111	77-140		6.11	30	
1,2,3-Trichloropropane	7.54		"	10.0		75.4	79-127	Low Bias	11.6	30	
1,2,4-Trichlorobenzene	11.2		"	10.0		112	75-141		12.6	30	
1,2,4-Trimethylbenzene	8.22		"	10.0		82.2	78-127		0.978	30	
1,2-Dibromo-3-chloropropane	7.28		"	10.0		72.8	60-150		8.90	30	
1,2-Dibromoethane	10.2		"	10.0		102	86-123		1.78	30	
1,2-Dichlorobenzene	10.0		"	10.0		100	79-125		3.13	30	
1,2-Dichloroethane	10.8		"	10.0		108	69-133		2.61	30	
1,2-Dichloropropane	8.54		"	10.0		85.4	76-124		2.09	30	
1,3,5-Trimethylbenzene	6.48		"	10.0		64.8	78-128	Low Bias	1.23	30	
1,3-Dichlorobenzene	10.1		"	10.0		101	81-124		2.52	30	
1,3-Dichloropropane	9.44		"	10.0		94.4	79-125		3.44	30	
1,4-Dichlorobenzene	10.7		"	10.0		107	82-124		7.85	30	
2,2-Dichloropropane	6.28		"	10.0		62.8	61-139		2.05	30	
2-Butanone	10.7		"	10.0		107	44-169		6.85	30	
2-Chlorotoluene	12.9		"	10.0		129	74-130		0.00	30	
4-Chlorotoluene	8.33		"	10.0		83.3	75-127		2.61	30	
Acetone	9.21		"	10.0		92.1	29-163		12.7	30	
Benzene	13.4		"	10.0		134	72-134		1.55	30	
Bromobenzene	7.99		"	10.0		79.9	74-129		1.51	30	
Bromochloromethane	10.6		"	10.0		106	69-134		2.98	30	
Bromodichloromethane	11.9		"	10.0		119	76-127		1.96	30	
Bromoform	10.6		"	10.0		106	77-137		4.65	30	
Bromomethane	11.0		"	10.0		110	50-156		7.81	30	
Carbon tetrachloride	10.4		"	10.0		104	62-145		3.49	30	
Chlorobenzene	9.73		"	10.0		97.3	85-119		1.76	30	
Chloroethane	10.4		"	10.0		104	49-143		1.95	30	
Chloroform	10.9		"	10.0		109	74-131		1.46	30	
Chloromethane	8.67		"	10.0		86.7	43-134		0.345	30	
cis-1,2-Dichloroethylene	13.9		"	10.0		139	73-134	High Bias	0.644	30	
cis-1,3-Dichloropropylene	8.78		"	10.0		87.8	77-128		3.14	30	
Dibromochloromethane	10.6		"	10.0		106	79-130		0.754	30	
Dibromomethane	10.2		"	10.0		102	78-128		0.593	30	
Dichlorodifluoromethane	11.9		"	10.0		119	38-139		1.27	30	
Ethyl Benzene	9.10		"	10.0		91.0	80-129		4.93	30	
Hexachlorobutadiene	10.4		"	10.0		104	72-141		5.75	30	
Isopropylbenzene	8.03		"	10.0		80.3	76-128		2.65	30	
Methyl tert-butyl ether (MTBE)	13.6		"	10.0		136	64-142		4.21	30	
Methylene chloride	8.98		"	10.0		89.8	56-142		4.46	30	
Naphthalene	11.0		"	10.0		110	79-144		8.96	30	
n-Butylbenzene	7.70		"	10.0		77.0	74-132		0.259	30	
n-Propylbenzene	8.12		"	10.0		81.2	72-135		1.47	30	
o-Xylene	9.50		"	10.0		95.0	81-123		1.98	30	



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BD71042 - EPA 5030B

#### LCS Dup (BD71042-BSD1)

Prepared: 04/21/2017 Analyzed: 04/22/2017

p- & m- Xylenes	17.6		ug/L	20.0		87.8	79-130		2.81	30	
p-Isopropyltoluene	8.11		"	10.0		81.1	80-127		0.123	30	
sec-Butylbenzene	7.80		"	10.0		78.0	78-127		2.16	30	
Styrene	9.34		"	10.0		93.4	82-124		4.50	30	
tert-Butylbenzene	6.44		"	10.0		64.4	75-131	Low Bias	16.7	30	
Tetrachloroethylene	17.8		"	10.0		178	78-133	High Bias	14.7	30	
Toluene	11.5		"	10.0		115	83-122		2.90	30	
trans-1,2-Dichloroethylene	9.30		"	10.0		93.0	59-145		0.536	30	
trans-1,3-Dichloropropylene	8.93		"	10.0		89.3	74-131		0.558	30	
Trichloroethylene	10.0		"	10.0		100	81-125		1.31	30	
Trichlorofluoromethane	11.7		"	10.0		117	61-144		1.19	30	
Vinyl acetate	7.71		"	10.0		77.1	32-165		5.79	30	
Vinyl Chloride	9.62		"	10.0		96.2	42-136		3.38	30	
Surrogate: 1,2-Dichloroethane-d4	9.34		"	10.0		93.4	69-130				
Surrogate: Toluene-d8	9.36		"	10.0		93.6	81-117				
Surrogate: p-Bromofluorobenzene	10.1		"	10.0		101	79-122				





### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17D0581-01	MW25	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17D0581-02	MW25 Duplicate	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17D0581-03	MW26	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17D0581-04	T5	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17D0581-05	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17D0581-06	Equip Blank	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.

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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  
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Fax (203) 357-0166

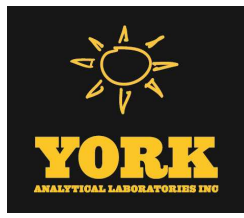
**YORK**  
ANALYTICAL LABORATORIES LTD

# 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.

Page 1 of 1  
York Project No. 17D581

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type			
Company: <u>Mid - Hudson Geoscience</u> Address: <u>1003 Rt 44/55</u> <u>Clintondale, NY 12515</u> Phone No: <u>845 883 5726</u> Contact: <u>Kathie Beinkafner</u> E-Mail Address: <u>rookdoctor@optonline.net</u>		Company: _____ Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		Company: <u>American Cleaners</u> Address: <u>350 Rt 211 East</u> <u>Middletown, NY 10940</u> Phone: <u>845 343-1100 x 102</u> Attention: <u>Mr. Erez Halevan</u> E-Mail Address: <u>erez199@gmail.com</u>		<u>AC Middletown</u> <u>GW part 1</u> Purchase Order No. _____ Samples from: CT _____ NY <u>✓</u> NJ _____		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"/>		Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CTRCP DQADUE Pkg <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input checked="" type="checkbox"/> NIDEP Red. Deliv. <input type="checkbox"/> Electronic Data Deliverables (EDD) <input type="checkbox"/> Simple Excel <input checked="" type="checkbox"/> NYSECE QuIS <input checked="" type="checkbox"/> EQUS (std) <input type="checkbox"/> EZ-EDD (EQUS) <input type="checkbox"/> NIDEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other _____ York Regulatory Comparison <input type="checkbox"/> Excel Spreadsheet <input type="checkbox"/> Compare to the following Regs. (please fill in) _____			
Matrix Codes		Volatiles		Semi-Vols./Pest/PCB/Herb		Metals		Full Lists		Misc.			
S - soil Other - specify (oil, etc.) W/W - wastewater G/W - groundwater D/W - drinking water Air-A - ambient air Air-SV - soil vapor		TICs Site Spec. STARS list Nassau Co. Suffolk Co. MTBE Ketones Oxyaromatics TAGM list TCLP list CT RCP list Arom. only Halog. only App. IX list SPL Per TCLP 8021B list		8082/PCB 8081/PCB 8151/Herb CT RCP App. IX TAGM list Site Spec. SPL Per TCLP TCLP list TCLP Herb Chlordane 608 Pest SPL Per TCLP 608 PCB		RCRAS PPI3 list TAL CTI5 list TAGM list NIDEP list Total Dissolved SPL Per TCLP Indis. Metals LIST Below Helium		TPH GRO TPH DRO CT ETPH NY 310-13 TPH 1664 Air TO 14A Air TO 15 Air STARS Air VPH Air TICs Methane Helium		Pi. Poll. TCL Ograns TAL MacCN Full TCLP Full App. IX Part 360-Baseline Part 360-Residual Part 360-Residual NYDEP-Sever NYSECE-Sever Asbestos Silica		Corrosivity Reactivity Ignitability Flash Point Sieve Anal. Heteroatoms TOX BTU/lb Aquatic Tox. TOC	
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below										
MW 25	4/13/17 1235 PM	GW	3 clean 40ml vials										
MW 25 Duplicate	4/13/17 1240 PM	GW	3 clean 40ml vials										
MW 26	4/13/17 2:00 PM	GW	3 clean 40ml vials										
T5	4/13/17 3:05 PM	GW	3 clean 40ml vials										
Trip Blank	4/13/17	Distilled Water	3 clean 40ml vials										
Equip Blank	4/13/17	Distilled Water	3 clean 40ml vials										
Comments			Preservation <input checked="" type="checkbox"/> 4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input checked="" 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 Check those Applicable Special Instructions <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter Samples Relinquished By _____ Date/Time _____ Samples Received By <u>Chie</u> Date/Time <u>4-14-17 10:25</u> Samples Relinquished By _____ Date/Time _____ Samples Received in LAB by <u>Chie</u> Date/Time <u>4/14/17 1729</u>										
PCE is chemical of concern W. background products Busy natural microbes!			Temperature on Receipt <u>5.6</u> °C										



# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 06/12/2017  
**Client Project ID: AC Middletown GW part 2**  
York Project (SDG) No.: 17F0052

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](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371



132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 06/12/2017  
Client Project ID: AC Middletown GW part 2  
York Project (SDG) No.: 17F0052

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

---

## 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 02, 2017 and listed below. The project was identified as your project: **AC Middletown GW part 2**.

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>
17F0052-01	MW33	Water	06/01/2017	06/02/2017
17F0052-02	MW32	Water	06/01/2017	06/02/2017
17F0052-03	MW32 Duplicate	Water	06/01/2017	06/02/2017
17F0052-04	MW31	Water	06/01/2017	06/02/2017
17F0052-05	Trip Blank	Water	06/01/2017	06/02/2017
17F0052-06	EQUIP BLANK	Water	06/01/2017	06/02/2017

## **General Notes for York Project (SDG) No.: 17F0052**

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:** 06/12/2017





## Sample Information

**Client Sample ID:** MW33

**York Sample ID:** 17F0052-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17F0052

AC Middletown GW part 2

Water

June 1, 2017 11:15 am

06/02/2017

### 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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS





## Sample Information

**Client Sample ID:** MW33

**York Sample ID:** 17F0052-01

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 11:15 am

Date Received  
06/02/2017

### 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
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
67-64-1	Acetone	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>23</b>		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS





## Sample Information

**Client Sample ID:** MW33

**York Sample ID:** 17F0052-01

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 11:15 am

Date Received  
06/02/2017

### 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
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>200</b>		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/09/2017 07:37	06/10/2017 06:36	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
79-01-6	<b>Trichloroethylene</b>	<b>19</b>		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 14:28	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 14:28	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 14:28	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %	69-130								
2037-26-5	Surrogate: Toluene-d8	103 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	89.7 %	79-122								



## Sample Information

**Client Sample ID:** MW32

**York Sample ID:** 17F0052-02

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 12:40 pm

Date Received  
06/02/2017

### 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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS



## Sample Information

**Client Sample ID:** MW32

**York Sample ID:** 17F0052-02

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 12:40 pm

Date Received  
06/02/2017

### 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
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
67-64-1	Acetone	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>32</b>		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS



## Sample Information

**Client Sample ID:** MW32

**York Sample ID:** 17F0052-02

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 12:40 pm

Date Received  
06/02/2017

### 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
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>260</b>		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/09/2017 07:37	06/10/2017 07:16	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>180</b>		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
79-01-6	<b>Trichloroethylene</b>	<b>28</b>		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 15:08	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:08	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 15:08	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.2 %	69-130								
2037-26-5	Surrogate: Toluene-d8	104 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	99.3 %	79-122								



## Sample Information

**Client Sample ID:** MW32 Duplicate

**York Sample ID:** 17F0052-03

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 12:40 pm

Date Received  
06/02/2017

### 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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS



## Sample Information

**Client Sample ID:** MW32 Duplicate

**York Sample ID:** 17F0052-03

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 12:40 pm

Date Received  
06/02/2017

### 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
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
67-64-1	Acetone	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>32</b>		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS



## Sample Information

**Client Sample ID:** MW32 Duplicate

**York Sample ID:** 17F0052-03

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 12:40 pm

Date Received  
06/02/2017

### 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
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>160</b>		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>250</b>		ug/L	25	50	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/09/2017 07:37	06/10/2017 07:55	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
79-01-6	<b>Trichloroethylene</b>	<b>25</b>		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 15:48	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 15:48	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 15:48	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.1 %	69-130								
2037-26-5	Surrogate: Toluene-d8	103 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	101 %	79-122								





## Sample Information

**Client Sample ID:** MW31

**York Sample ID:** 17F0052-04

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 1:45 pm

Date Received  
06/02/2017

### 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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS





## Sample Information

**Client Sample ID:** MW31

**York Sample ID:** 17F0052-04

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 1:45 pm

Date Received  
06/02/2017

### 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
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
67-64-1	Acetone	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS



## Sample Information

**Client Sample ID:** MW31

**York Sample ID:** 17F0052-04

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 1:45 pm

Date Received  
06/02/2017

### 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
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 16:28	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 16:28	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 16:28	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	96.6 %	69-130								
2037-26-5	Surrogate: Toluene-d8	103 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	101 %	79-122								



## Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 17F0052-05

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 7:00 am

Date Received  
06/02/2017

### 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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS



## Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 17F0052-05

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 7:00 am

Date Received  
06/02/2017

### 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
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
67-64-1	Acetone	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS



## Sample Information

**Client Sample ID:** Trip Blank

**York Sample ID:** 17F0052-05

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 7:00 am

Date Received  
06/02/2017

### 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
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 17:07	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 17:07	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 17:07	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	96.5 %	69-130								
2037-26-5	Surrogate: Toluene-d8	105 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	97.5 %	79-122								



## Sample Information

**Client Sample ID:** EQUIP BLANK

**York Sample ID:** 17F0052-06

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 7:00 am

Date Received  
06/02/2017

### 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 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
78-93-3	2-Butanone	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS



## Sample Information

**Client Sample ID:** EQUIP BLANK

**York Sample ID:** 17F0052-06

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 7:00 am

Date Received  
06/02/2017

### 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
95-49-8	2-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
106-43-4	4-Chlorotoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
67-64-1	Acetone	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
71-43-2	Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
108-86-1	Bromobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
74-97-5	Bromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
75-25-2	Bromoform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
74-83-9	Bromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
108-90-7	Chlorobenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
75-00-3	Chloroethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
67-66-3	Chloroform	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
74-87-3	Chloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
74-95-3	Dibromomethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS





## Sample Information

**Client Sample ID:** EQUIP BLANK

**York Sample ID:** 17F0052-06

York Project (SDG) No.  
17F0052

Client Project ID  
AC Middletown GW part 2

Matrix  
Water

Collection Date/Time  
June 1, 2017 7:00 am

Date Received  
06/02/2017

### 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
75-09-2	Methylene chloride	ND		ug/L	2.5	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
91-20-3	Naphthalene	ND		ug/L	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
95-47-6	o-Xylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
100-42-5	Styrene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
108-88-3	Toluene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
79-01-6	Trichloroethylene	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
108-05-4	Vinyl acetate	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 13:47	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/08/2017 07:37	06/08/2017 13:47	SS
1330-20-7	Xylenes, Total	ND		ug/L	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/08/2017 07:37	06/08/2017 13:47	SS
<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	103 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	102 %	79-122								





## Analytical Batch Summary

**Batch ID:** BF70375

**Preparation Method:** EPA 5030B

**Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
17F0052-01	MW33	06/08/17
17F0052-02	MW32	06/08/17
17F0052-03	MW32 Duplicate	06/08/17
17F0052-04	MW31	06/08/17
17F0052-05	Trip Blank	06/08/17
17F0052-06	EQUIP BLANK	06/08/17
BF70375-BLK1	Blank	06/08/17
BF70375-BS1	LCS	06/08/17
BF70375-BSD1	LCS Dup	06/08/17

**Batch ID:** BF70505

**Preparation Method:** EPA 5030B

**Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
17F0052-01RE1	MW33	06/09/17
17F0052-02RE1	MW32	06/09/17
17F0052-03RE1	MW32 Duplicate	06/09/17
BF70505-BLK1	Blank	06/09/17
BF70505-BS1	LCS	06/09/17
BF70505-BSD1	LCS Dup	06/09/17



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BF70375 - EPA 5030B

#### Blank (BF70375-BLK1)

Prepared & Analyzed: 06/08/2017

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	ND	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylene chloride	ND	10	"
Naphthalene	ND	10	"
n-Butylbenzene	ND	5.0	"
n-Propylbenzene	ND	5.0	"



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BF70375 - EPA 5030B

##### Blank (BF70375-BLK1)

Prepared & Analyzed: 06/08/2017

o-Xylene	ND	5.0	ug/L
p- & m- Xylenes	ND	10	"
p-Isopropyltoluene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
Styrene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Tetrachloroethylene	ND	5.0	"
Toluene	ND	5.0	"
trans-1,2-Dichloroethylene	ND	5.0	"
trans-1,3-Dichloropropylene	ND	5.0	"
Trichloroethylene	ND	5.0	"
Trichlorofluoromethane	ND	5.0	"
Vinyl acetate	ND	5.0	"
Vinyl Chloride	ND	5.0	"
Xylenes, Total	ND	15	"

Surrogate: 1,2-Dichloroethane-d4	10.2	"	10.0	102	69-130
Surrogate: Toluene-d8	10.2	"	10.0	102	81-117
Surrogate: p-Bromofluorobenzene	10.2	"	10.0	102	79-122

##### LCS (BF70375-BS1)

Prepared & Analyzed: 06/08/2017

1,1,1,2-Tetrachloroethane	10.4	ug/L	10.0	104	70-132
1,1,1-Trichloroethane	9.82	"	10.0	98.2	68-138
1,1,2,2-Tetrachloroethane	10.1	"	10.0	101	73-132
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.99	"	10.0	99.9	67-136
1,1,2-Trichloroethane	9.69	"	10.0	96.9	79-125
1,1-Dichloroethane	9.97	"	10.0	99.7	78-128
1,1-Dichloroethylene	9.53	"	10.0	95.3	68-134
1,1-Dichloropropylene	9.58	"	10.0	95.8	74-130
1,2,3-Trichlorobenzene	16.7	"	10.0	167	77-140
1,2,3-Trichloropropane	8.09	"	10.0	80.9	79-127
1,2,4-Trichlorobenzene	13.8	"	10.0	138	75-141
1,2,4-Trimethylbenzene	10.4	"	10.0	104	78-127
1,2-Dibromo-3-chloropropane	10.4	"	10.0	104	60-150
1,2-Dibromoethane	10.1	"	10.0	101	86-123
1,2-Dichlorobenzene	10.6	"	10.0	106	79-125
1,2-Dichloroethane	9.45	"	10.0	94.5	69-133
1,2-Dichloropropane	10.5	"	10.0	105	76-124
1,3,5-Trimethylbenzene	11.0	"	10.0	110	78-128
1,3-Dichlorobenzene	10.5	"	10.0	105	81-124
1,3-Dichloropropane	10.2	"	10.0	102	79-125
1,4-Dichlorobenzene	10.4	"	10.0	104	82-124
2,2-Dichloropropane	10.3	"	10.0	103	61-139
2-Butanone	9.50	"	10.0	95.0	44-169
2-Chlorotoluene	10.5	"	10.0	105	74-130
4-Chlorotoluene	10.4	"	10.0	104	75-127
Acetone	8.76	"	10.0	87.6	29-163
Benzene	9.55	"	10.0	95.5	72-134
Bromobenzene	10.3	"	10.0	103	74-129
Bromochloromethane	9.14	"	10.0	91.4	69-134
Bromodichloromethane	10.2	"	10.0	102	76-127
Bromoform	9.87	"	10.0	98.7	77-137



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BF70375 - EPA 5030B

#### LCS (BF70375-BS1)

Prepared & Analyzed: 06/08/2017

Bromomethane	4.13		ug/L	10.0		41.3	50-156	Low Bias			
Carbon tetrachloride	10.4		"	10.0		104	62-145				
Chlorobenzene	10.2		"	10.0		102	85-119				
Chloroethane	8.24		"	10.0		82.4	49-143				
Chloroform	9.71		"	10.0		97.1	74-131				
Chloromethane	6.34		"	10.0		63.4	43-134				
cis-1,2-Dichloroethylene	9.78		"	10.0		97.8	73-134				
cis-1,3-Dichloropropylene	10.5		"	10.0		105	77-128				
Dibromochloromethane	10.3		"	10.0		103	79-130				
Dibromomethane	10.5		"	10.0		105	78-128				
Dichlorodifluoromethane	8.67		"	10.0		86.7	38-139				
Ethyl Benzene	10.2		"	10.0		102	80-129				
Hexachlorobutadiene	12.5		"	10.0		125	72-141				
Isopropylbenzene	10.2		"	10.0		102	76-128				
Methyl tert-butyl ether (MTBE)	9.54		"	10.0		95.4	64-142				
Methylene chloride	7.39		"	10.0		73.9	56-142				
Naphthalene	16.6		"	10.0		166	79-144	High Bias			
n-Butylbenzene	11.0		"	10.0		110	74-132				
n-Propylbenzene	10.2		"	10.0		102	72-135				
o-Xylene	10.5		"	10.0		105	81-123				
p- & m- Xylenes	20.6		"	20.0		103	79-130				
p-Isopropyltoluene	10.9		"	10.0		109	80-127				
sec-Butylbenzene	10.8		"	10.0		108	78-127				
Styrene	10.7		"	10.0		107	82-124				
tert-Butylbenzene	11.0		"	10.0		110	75-131				
Tetrachloroethylene	10.8		"	10.0		108	78-133				
Toluene	10.4		"	10.0		104	83-122				
trans-1,2-Dichloroethylene	9.62		"	10.0		96.2	59-145				
trans-1,3-Dichloropropylene	10.6		"	10.0		106	74-131				
Trichloroethylene	10.6		"	10.0		106	81-125				
Trichlorofluoromethane	8.43		"	10.0		84.3	61-144				
Vinyl acetate	9.87		"	10.0		98.7	32-165				
Vinyl Chloride	8.21		"	10.0		82.1	42-136				
Surrogate: 1,2-Dichloroethane-d4	9.79		"	10.0		97.9	69-130				
Surrogate: Toluene-d8	10.3		"	10.0		103	81-117				
Surrogate: p-Bromofluorobenzene	10.1		"	10.0		101	79-122				



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BF70375 - EPA 5030B</b>											
<b>LCS Dup (BF70375-BSD1)</b>						Prepared & Analyzed: 06/08/2017					
1,1,1,2-Tetrachloroethane	10.7		ug/L	10.0		107	70-132		2.37	30	
1,1,1-Trichloroethane	9.70		"	10.0		97.0	68-138		1.23	30	
1,1,2,2-Tetrachloroethane	9.32		"	10.0		93.2	73-132		8.13	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.63		"	10.0		96.3	67-136		3.67	30	
1,1,2-Trichloroethane	9.83		"	10.0		98.3	79-125		1.43	30	
1,1-Dichloroethane	9.78		"	10.0		97.8	78-128		1.92	30	
1,1-Dichloroethylene	9.30		"	10.0		93.0	68-134		2.44	30	
1,1-Dichloropropylene	9.47		"	10.0		94.7	74-130		1.15	30	
1,2,3-Trichlorobenzene	20.6		"	10.0		206	77-140	High Bias	20.7	30	
1,2,3-Trichloropropane	7.74		"	10.0		77.4	79-127	Low Bias	4.42	30	
1,2,4-Trichlorobenzene	15.1		"	10.0		151	75-141	High Bias	8.64	30	
1,2,4-Trimethylbenzene	10.2		"	10.0		102	78-127		1.84	30	
1,2-Dibromo-3-chloropropane	10.8		"	10.0		108	60-150		3.78	30	
1,2-Dibromoethane	10.4		"	10.0		104	86-123		2.25	30	
1,2-Dichlorobenzene	10.2		"	10.0		102	79-125		3.83	30	
1,2-Dichloroethane	9.42		"	10.0		94.2	69-133		0.318	30	
1,2-Dichloropropane	9.92		"	10.0		99.2	76-124		6.06	30	
1,3,5-Trimethylbenzene	10.3		"	10.0		103	78-128		6.48	30	
1,3-Dichlorobenzene	10.2		"	10.0		102	81-124		3.29	30	
1,3-Dichloropropane	9.99		"	10.0		99.9	79-125		2.28	30	
1,4-Dichlorobenzene	9.85		"	10.0		98.5	82-124		5.72	30	
2,2-Dichloropropane	9.87		"	10.0		98.7	61-139		4.36	30	
2-Butanone	7.90		"	10.0		79.0	44-169		18.4	30	
2-Chlorotoluene	10.0		"	10.0		100	74-130		4.77	30	
4-Chlorotoluene	9.89		"	10.0		98.9	75-127		4.74	30	
Acetone	6.78		"	10.0		67.8	29-163		25.5	30	
Benzene	9.59		"	10.0		95.9	72-134		0.418	30	
Bromobenzene	10.1		"	10.0		101	74-129		1.47	30	
Bromochloromethane	9.39		"	10.0		93.9	69-134		2.70	30	
Bromodichloromethane	9.85		"	10.0		98.5	76-127		3.39	30	
Bromoform	9.25		"	10.0		92.5	77-137		6.49	30	
Bromomethane	4.77		"	10.0		47.7	50-156	Low Bias	14.4	30	
Carbon tetrachloride	10.1		"	10.0		101	62-145		2.44	30	
Chlorobenzene	10.0		"	10.0		100	85-119		0.990	30	
Chloroethane	7.69		"	10.0		76.9	49-143		6.91	30	
Chloroform	9.57		"	10.0		95.7	74-131		1.45	30	
Chloromethane	6.71		"	10.0		67.1	43-134		5.67	30	
cis-1,2-Dichloroethylene	9.71		"	10.0		97.1	73-134		0.718	30	
cis-1,3-Dichloropropylene	10.2		"	10.0		102	77-128		3.18	30	
Dibromochloromethane	9.95		"	10.0		99.5	79-130		3.26	30	
Dibromomethane	10.0		"	10.0		100	78-128		5.06	30	
Dichlorodifluoromethane	8.60		"	10.0		86.0	38-139		0.811	30	
Ethyl Benzene	10.0		"	10.0		100	80-129		1.87	30	
Hexachlorobutadiene	14.4		"	10.0		144	72-141	High Bias	14.3	30	
Isopropylbenzene	9.60		"	10.0		96.0	76-128		5.77	30	
Methyl tert-butyl ether (MTBE)	9.39		"	10.0		93.9	64-142		1.58	30	
Methylene chloride	7.20		"	10.0		72.0	56-142		2.60	30	
Naphthalene	18.7		"	10.0		187	79-144	High Bias	11.6	30	
n-Butylbenzene	10.7		"	10.0		107	74-132		2.86	30	
n-Propylbenzene	9.66		"	10.0		96.6	72-135		4.95	30	
o-Xylene	10.3		"	10.0		103	81-123		1.82	30	



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BF70375 - EPA 5030B

##### LCS Dup (BF70375-BSD1)

Prepared & Analyzed: 06/08/2017

p- & m- Xylenes	20.4		ug/L	20.0		102	79-130		1.03	30
p-Isopropyltoluene	10.5		"	10.0		105	80-127		4.49	30
sec-Butylbenzene	10.3		"	10.0		103	78-127		4.47	30
Styrene	10.5		"	10.0		105	82-124		1.88	30
tert-Butylbenzene	10.4		"	10.0		104	75-131		5.78	30
Tetrachloroethylene	10.0		"	10.0		100	78-133		7.48	30
Toluene	10.2		"	10.0		102	83-122		2.23	30
trans-1,2-Dichloroethylene	9.74		"	10.0		97.4	59-145		1.24	30
trans-1,3-Dichloropropylene	10.4		"	10.0		104	74-131		1.91	30
Trichloroethylene	10.0		"	10.0		100	81-125		6.10	30
Trichlorofluoromethane	8.29		"	10.0		82.9	61-144		1.67	30
Vinyl acetate	9.69		"	10.0		96.9	32-165		1.84	30
Vinyl Chloride	8.01		"	10.0		80.1	42-136		2.47	30
Surrogate: 1,2-Dichloroethane-d4	9.86		"	10.0		98.6	69-130			
Surrogate: Toluene-d8	10.1		"	10.0		101	81-117			
Surrogate: p-Bromofluorobenzene	9.50		"	10.0		95.0	79-122			

#### Batch BF70505 - EPA 5030B

##### Blank (BF70505-BLK1)

Prepared: 06/09/2017 Analyzed: 06/10/2017

1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Acetone	8.2	10	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BF70505 - EPA 5030B

#### Blank (BF70505-BLK1)

Prepared: 06/09/2017 Analyzed: 06/10/2017

Bromomethane	ND	5.0	ug/L								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl acetate	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<hr/>											
Surrogate: 1,2-Dichloroethane-d4	10.3		"	10.0		103	69-130				
Surrogate: Toluene-d8	10.0		"	10.0		100	81-117				
Surrogate: p-Bromofluorobenzene	10.3		"	10.0		103	79-122				



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BF70505 - EPA 5030B</b>											
<b>LCS (BF70505-BS1)</b>						Prepared: 06/09/2017 Analyzed: 06/10/2017					
1,1,1,2-Tetrachloroethane	10.7		ug/L	10.0		107	70-132				
1,1,1-Trichloroethane	9.68		"	10.0		96.8	68-138				
1,1,2,2-Tetrachloroethane	9.84		"	10.0		98.4	73-132				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.99		"	10.0		89.9	67-136				
1,1,2-Trichloroethane	9.97		"	10.0		99.7	79-125				
1,1-Dichloroethane	10.1		"	10.0		101	78-128				
1,1-Dichloroethylene	9.33		"	10.0		93.3	68-134				
1,1-Dichloropropylene	9.54		"	10.0		95.4	74-130				
1,2,3-Trichlorobenzene	16.2		"	10.0		162	77-140	High Bias			
1,2,3-Trichloropropane	8.16		"	10.0		81.6	79-127				
1,2,4-Trichlorobenzene	12.9		"	10.0		129	75-141				
1,2,4-Trimethylbenzene	9.75		"	10.0		97.5	78-127				
1,2-Dibromo-3-chloropropane	11.6		"	10.0		116	60-150				
1,2-Dibromoethane	10.5		"	10.0		105	86-123				
1,2-Dichlorobenzene	10.2		"	10.0		102	79-125				
1,2-Dichloroethane	9.50		"	10.0		95.0	69-133				
1,2-Dichloropropane	10.2		"	10.0		102	76-124				
1,3,5-Trimethylbenzene	9.81		"	10.0		98.1	78-128				
1,3-Dichlorobenzene	9.95		"	10.0		99.5	81-124				
1,3-Dichloropropane	10.2		"	10.0		102	79-125				
1,4-Dichlorobenzene	10.4		"	10.0		104	82-124				
2,2-Dichloropropane	7.83		"	10.0		78.3	61-139				
2-Butanone	9.50		"	10.0		95.0	44-169				
2-Chlorotoluene	9.79		"	10.0		97.9	74-130				
4-Chlorotoluene	10.1		"	10.0		101	75-127				
Acetone	12.8		"	10.0		128	29-163				
Benzene	9.95		"	10.0		99.5	72-134				
Bromobenzene	10.1		"	10.0		101	74-129				
Bromochloromethane	10.1		"	10.0		101	69-134				
Bromodichloromethane	10.5		"	10.0		105	76-127				
Bromoform	9.76		"	10.0		97.6	77-137				
Bromomethane	4.86		"	10.0		48.6	50-156	Low Bias			
Carbon tetrachloride	10.5		"	10.0		105	62-145				
Chlorobenzene	10.5		"	10.0		105	85-119				
Chloroethane	7.67		"	10.0		76.7	49-143				
Chloroform	10.0		"	10.0		100	74-131				
Chloromethane	5.76		"	10.0		57.6	43-134				
cis-1,2-Dichloroethylene	9.87		"	10.0		98.7	73-134				
cis-1,3-Dichloropropylene	10.2		"	10.0		102	77-128				
Dibromochloromethane	10.5		"	10.0		105	79-130				
Dibromomethane	10.4		"	10.0		104	78-128				
Dichlorodifluoromethane	5.52		"	10.0		55.2	38-139				
Ethyl Benzene	10.2		"	10.0		102	80-129				
Hexachlorobutadiene	10.6		"	10.0		106	72-141				
Isopropylbenzene	9.48		"	10.0		94.8	76-128				
Methyl tert-butyl ether (MTBE)	10.3		"	10.0		103	64-142				
Methylene chloride	7.74		"	10.0		77.4	56-142				
Naphthalene	16.8		"	10.0		168	79-144	High Bias			
n-Butylbenzene	9.97		"	10.0		99.7	74-132				
n-Propylbenzene	9.41		"	10.0		94.1	72-135				
o-Xylene	10.6		"	10.0		106	81-123				





## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BF70505 - EPA 5030B

##### LCS (BF70505-BS1)

Prepared: 06/09/2017 Analyzed: 06/10/2017

p- & m- Xylenes	20.8		ug/L	20.0		104	79-130				
p-Isopropyltoluene	10.1		"	10.0		101	80-127				
sec-Butylbenzene	9.95		"	10.0		99.5	78-127				
Styrene	10.8		"	10.0		108	82-124				
tert-Butylbenzene	10.2		"	10.0		102	75-131				
Tetrachloroethylene	10.5		"	10.0		105	78-133				
Toluene	10.4		"	10.0		104	83-122				
trans-1,2-Dichloroethylene	9.83		"	10.0		98.3	59-145				
trans-1,3-Dichloropropylene	10.3		"	10.0		103	74-131				
Trichloroethylene	10.3		"	10.0		103	81-125				
Trichlorofluoromethane	7.95		"	10.0		79.5	61-144				
Vinyl acetate	10.0		"	10.0		100	32-165				
Vinyl Chloride	7.26		"	10.0		72.6	42-136				
Surrogate: 1,2-Dichloroethane-d4	10.2		"	10.0		102	69-130				
Surrogate: Toluene-d8	10.0		"	10.0		100	81-117				
Surrogate: p-Bromofluorobenzene	9.39		"	10.0		93.9	79-122				

##### LCS Dup (BF70505-BSD1)

Prepared: 06/09/2017 Analyzed: 06/10/2017

1,1,1,2-Tetrachloroethane	10.6		ug/L	10.0		106	70-132		1.60	30	
1,1,1-Trichloroethane	10.1		"	10.0		101	68-138		4.25	30	
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	73-132		3.30	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.24		"	10.0		92.4	67-136		2.74	30	
1,1,2-Trichloroethane	10.7		"	10.0		107	79-125		6.69	30	
1,1-Dichloroethane	10.3		"	10.0		103	78-128		1.86	30	
1,1-Dichloroethylene	9.39		"	10.0		93.9	68-134		0.641	30	
1,1-Dichloropropylene	9.79		"	10.0		97.9	74-130		2.59	30	
1,2,3-Trichlorobenzene	19.2		"	10.0		192	77-140	High Bias	16.4	30	
1,2,3-Trichloropropane	7.87		"	10.0		78.7	79-127	Low Bias	3.62	30	
1,2,4-Trichlorobenzene	15.2		"	10.0		152	75-141	High Bias	16.2	30	
1,2,4-Trimethylbenzene	10.0		"	10.0		100	78-127		2.63	30	
1,2-Dibromo-3-chloropropane	11.6		"	10.0		116	60-150		0.00	30	
1,2-Dibromoethane	10.7		"	10.0		107	86-123		1.61	30	
1,2-Dichlorobenzene	10.6		"	10.0		106	79-125		4.53	30	
1,2-Dichloroethane	9.96		"	10.0		99.6	69-133		4.73	30	
1,2-Dichloropropane	10.3		"	10.0		103	76-124		0.487	30	
1,3,5-Trimethylbenzene	9.88		"	10.0		98.8	78-128		0.711	30	
1,3-Dichlorobenzene	10.3		"	10.0		103	81-124		3.17	30	
1,3-Dichloropropane	10.6		"	10.0		106	79-125		3.86	30	
1,4-Dichlorobenzene	10.3		"	10.0		103	82-124		0.0967	30	
2,2-Dichloropropane	7.65		"	10.0		76.5	61-139		2.33	30	
2-Butanone	11.4		"	10.0		114	44-169		18.4	30	
2-Chlorotoluene	9.74		"	10.0		97.4	74-130		0.512	30	
4-Chlorotoluene	10.1		"	10.0		101	75-127		0.297	30	
Acetone	21.2		"	10.0		212	29-163	High Bias	49.9	30	Non-dir.
Benzene	10.1		"	10.0		101	72-134		1.50	30	
Bromobenzene	10.3		"	10.0		103	74-129		1.86	30	
Bromochloromethane	10.1		"	10.0		101	69-134		0.198	30	
Bromodichloromethane	10.6		"	10.0		106	76-127		1.52	30	
Bromoform	9.93		"	10.0		99.3	77-137		1.73	30	
Bromomethane	4.85		"	10.0		48.5	50-156	Low Bias	0.206	30	
Carbon tetrachloride	10.5		"	10.0		105	62-145		0.190	30	



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BF70505 - EPA 5030B

#### LCS Dup (BF70505-BSD1)

Prepared: 06/09/2017 Analyzed: 06/10/2017

Chlorobenzene	10.2		ug/L	10.0		102	85-119		3.01	30	
Chloroethane	7.00		"	10.0		70.0	49-143		9.13	30	
Chloroform	10.3		"	10.0		103	74-131		2.65	30	
Chloromethane	5.68		"	10.0		56.8	43-134		1.40	30	
cis-1,2-Dichloroethylene	10.3		"	10.0		103	73-134		4.07	30	
cis-1,3-Dichloropropylene	10.2		"	10.0		102	77-128		0.686	30	
Dibromochloromethane	10.8		"	10.0		108	79-130		2.54	30	
Dibromomethane	10.4		"	10.0		104	78-128		0.00	30	
Dichlorodifluoromethane	5.52		"	10.0		55.2	38-139		0.00	30	
Ethyl Benzene	10.1		"	10.0		101	80-129		1.87	30	
Hexachlorobutadiene	11.7		"	10.0		117	72-141		9.48	30	
Isopropylbenzene	9.54		"	10.0		95.4	76-128		0.631	30	
Methyl tert-butyl ether (MTBE)	10.8		"	10.0		108	64-142		4.47	30	
Methylene chloride	7.90		"	10.0		79.0	56-142		2.05	30	
Naphthalene	19.1		"	10.0		191	79-144	High Bias	13.1	30	
n-Butylbenzene	10.0		"	10.0		100	74-132		0.600	30	
n-Propylbenzene	9.57		"	10.0		95.7	72-135		1.69	30	
o-Xylene	10.4		"	10.0		104	81-123		1.62	30	
p- & m- Xylenes	20.5		"	20.0		102	79-130		1.55	30	
p-Isopropyltoluene	10.2		"	10.0		102	80-127		1.18	30	
sec-Butylbenzene	9.89		"	10.0		98.9	78-127		0.605	30	
Styrene	10.7		"	10.0		107	82-124		0.834	30	
tert-Butylbenzene	10.2		"	10.0		102	75-131		0.0976	30	
Tetrachloroethylene	10.4		"	10.0		104	78-133		0.766	30	
Toluene	10.2		"	10.0		102	83-122		2.13	30	
trans-1,2-Dichloroethylene	9.94		"	10.0		99.4	59-145		1.11	30	
trans-1,3-Dichloropropylene	10.4		"	10.0		104	74-131		0.775	30	
Trichloroethylene	10.3		"	10.0		103	81-125		0.389	30	
Trichlorofluoromethane	7.71		"	10.0		77.1	61-144		3.07	30	
Vinyl acetate	10.4		"	10.0		104	32-165		4.01	30	
Vinyl Chloride	7.29		"	10.0		72.9	42-136		0.412	30	
Surrogate: 1,2-Dichloroethane-d4	10.3		"	10.0		103	69-130				
Surrogate: Toluene-d8	10.1		"	10.0		101	81-117				
Surrogate: p-Bromofluorobenzene	9.54		"	10.0		95.4	79-122				



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17F0052-01	MW33	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17F0052-02	MW32	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17F0052-03	MW32 Duplicate	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17F0052-04	MW31	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17F0052-05	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17F0052-06	EQUIP BLANK	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.

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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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**YORK**  
ANALYTICAL LABORATORIES, INC.

# 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.

Page 1 of 1  
York Project No. 17F0052

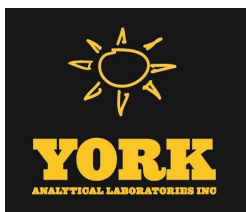
YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
Mid-Hudson Geosciences Company Address: 1003 Rt 44/53 Cintondale, NY 12515 Phone No. 845 883 5726 Contact: Katherine BeinKafner rockdocfor@optonline.net E-Mail Address:		American Cleaners Company Address: 360 Rt 211 East Middletown, NY 10940 Phone: 845 343 1100 x 102 Attention: Ms Erez Halekafner E-Mail Address: eerez@190gmail.com		AC Middletown GW part 2 Purchase Order No.		NY NJ		RUSH - Same Day RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard (5-7 Days) <input checked="" type="checkbox"/>		Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary <input checked="" type="checkbox"/> CT RCP Package <input checked="" type="checkbox"/> CT RCP DQA/DUE Pkg <input checked="" type="checkbox"/> NY ASP A Package <input checked="" type="checkbox"/> NY ASP B Package <input checked="" type="checkbox"/> NIDEP Red. Deliv. <input checked="" type="checkbox"/> Electronic Data Deliverables (EDD) <input checked="" type="checkbox"/> Simple Excel <input checked="" type="checkbox"/> NYSDEC EQuIS <input checked="" type="checkbox"/> EQuIS (std) <input checked="" type="checkbox"/> EZ-EDD (EQuIS) <input checked="" type="checkbox"/> NIDEP SRP HazSite EDD <input checked="" type="checkbox"/> GIS/KEY (std) <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> York Regulatory Comparison <input checked="" type="checkbox"/> Excel Spreadsheet <input checked="" type="checkbox"/> Compare to the following Regs. (please fill in)	
Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Volatiles 8260 full TICs Site Spec. STARS list Nassau Co BTX MTBE Ketones Oxigates TAGM list TCLP list CT RCP list Arom. only Halog. only App. IX list SP. Por. TCLP 8021B list		Semi-Vols 8270 or 625 STARS list BN Only Acids Only PAH list TAGM list Site Spec. SP. Por. TCLP TCLP list NIDEP list App. IX Chlordane LIST Below SP. Por. TCLP 608 PCB		Metals RCKA8 PP13 list TAL CT RCP CT15 list TAGM list NIDEP list Total Dissolved SP. Por. TCLP Ink. Metals LIST Below		Misc. Org. TPH GRO TPH DRO CT ETPH NY 310-13 Full App. IX Full App. IN Full App. IN Part 360-Residue Part 360-Residue NYDEC New Asbestos TAGM		Misc. Conductivity Reactivity Ignitability Flash Point Sieve Anal. Heteromorphs ION BTL, lb Aquatic Tox IOC 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.

Katherine J. BeinKafner  
Samples Collected/Authorized By (Signature)  
Katherine J. BeinKafner  
Name (printed)

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW33	6/1/17 11:15 AM	GW	8260 full	3 clean 40ml VOA Vials
M5/MSD (mw33)	6/1/17 11:15 AM	GW	8260 full	3 clean 40ml VOA Vials
MW32	6/1/17 12:40 PM	GW	8260 full	3 clean 40ml VOA Vials
MW32 Duplicate	6/1/17 12:40 PM	GW	8260 full	3 clean 40ml VOA Vials
MW31	6/1/17 1:45 PM	GW	8260 full	3 clean 40ml VOA Vials
TRIP Blank	6/1/17 7 AM	Distilled H <sub>2</sub> O	8260 full	3 clean 40ml VOA Vials
FRIG Blank	6/1/17 7 AM	Distilled H <sub>2</sub> O	8260 full	3 clean 40ml VOA Vials

Comments FOE is chemical of concern plus breakdown products	Preservation Check those Applicable Special Instructions Field Filled <input type="checkbox"/> Lab to Filter <input type="checkbox"/>		4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input checked="" 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 4.7 °C
	Katherine BeinKafner Samples Relinquished By Date/Time 6/2/17 8 AM		Date/Time 6/2/17 9:15		
Samples Relinquished By Date/Time		Samples Received in LAB By Date/Time 6/2/17 1530			



# Technical Report

prepared for:

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
**Attention: Katherine Beinkafner**

Report Date: 06/28/2017  
**Client Project ID: AC Middletown VES 4 Function**  
York Project (SDG) No.: 17F0808

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](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371



132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 06/28/2017  
Client Project ID: AC Middletown VES 4 Function  
York Project (SDG) No.: 17F0808

**Mid-Hudson Geosciences**  
1003 NY Route 44/55, P.O.Box 332  
Clintondale NY, 12515-0332  
Attention: Katherine Beinkafner

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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 21, 2017 and listed below. The project was identified as your project: **AC Middletown VES 4 Function**.

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>
17F0808-01	XP4 (18310/F 25)	Soil Vapor	06/20/2017	06/21/2017
17F0808-02	XP3 (17350/F 1)	Soil Vapor	06/20/2017	06/21/2017
17F0808-03	XP1 (466/F 21)	Soil Vapor	06/20/2017	06/21/2017
17F0808-04	XP2 (15524/F 29)	Soil Vapor	06/20/2017	06/21/2017



## **General Notes for York Project (SDG) No.: 17F0808**

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:** 06/28/2017





## Sample Information

**Client Sample ID:** XP4 (18310/F 25)

**York Sample ID:** 17F0808-01

**York Project (SDG) No.**

17F0808

**Client Project ID**

AC Middletown VES 4 Function

**Matrix**

Soil Vapor

**Collection Date/Time**

June 20, 2017 12:23 pm

**Date Received**

06/21/2017

### 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	18.88	EPA TO-15 Certifications:	06/21/2017 23:37	06/21/2017 23:37	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	10	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	14	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	10	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.6	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>53</b>		ug/m <sup>3</sup>	9.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	15	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.6	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.7	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	13	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>12</b>		ug/m <sup>3</sup>	9.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	13	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	8.7	18.88	EPA TO-15 Certifications:	06/21/2017 23:37	06/21/2017 23:37	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	14	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.6	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	15	18.88	EPA TO-15 Certifications:	06/21/2017 23:37	06/21/2017 23:37	LDS



## Sample Information

**Client Sample ID:** XP4 (18310/F 25)

**York Sample ID:** 17F0808-01

York Project (SDG) No.

17F0808

Client Project ID

AC Middletown VES 4 Function

Matrix

Soil Vapor

Collection Date/Time

June 20, 2017 12:23 pm

Date Received

06/21/2017

### 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
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	30	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.7	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
67-64-1	<b>Acetone</b>	<b>9.4</b>		ug/m <sup>3</sup>	9.0	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.1	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.0	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	9.8	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	13	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	20	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.9	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.0	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.7	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.0	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.2	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.9	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.6	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.5	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	16	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	14	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>13</b>		ug/m <sup>3</sup>	8.2	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	20	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS



## Sample Information

**Client Sample ID:** XP4 (18310/F 25)

**York Sample ID:** 17F0808-01

York Project (SDG) No.

17F0808

Client Project ID

AC Middletown VES 4 Function

Matrix

Soil Vapor

Collection Date/Time

June 20, 2017 12:23 pm

Date Received

06/21/2017

### 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
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.7	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.8	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	13	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.7	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.7	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
95-47-6	<b>o-Xylene</b>	<b>20</b>		ug/m <sup>3</sup>	8.2	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>67</b>		ug/m <sup>3</sup>	16	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
622-96-8	<b>* p-Ethyltoluene</b>	<b>38</b>		ug/m <sup>3</sup>	9.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.2	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.0	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>240</b>		ug/m <sup>3</sup>	3.2	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	11	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
108-88-3	<b>Toluene</b>	<b>39</b>		ug/m <sup>3</sup>	7.1	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.6	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	2.5	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.6	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.8	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/21/2017 23:37	06/21/2017 23:37	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: p-Bromofluorobenzene	95.5 %	72-118							



## Sample Information

**Client Sample ID:** XP3 (17350/F 1)

**York Sample ID:** 17F0808-02

York Project (SDG) No.

17F0808

Client Project ID

AC Middletown VES 4 Function

Matrix

Soil Vapor

Collection Date/Time

June 20, 2017 12:37 pm

Date Received

06/21/2017

### 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	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	11	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	15	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	11	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.9	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.8	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	15	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.6	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	15	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.9	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	9.1	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	14	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.6	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	13	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	9.1	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	14	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.8	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	16	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	31	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS



## Sample Information

**Client Sample ID:** XP3 (17350/F 1)

**York Sample ID:** 17F0808-02

York Project (SDG) No.  
17F0808

Client Project ID  
AC Middletown VES 4 Function

Matrix  
Soil Vapor

Collection Date/Time  
June 20, 2017 12:37 pm

Date Received  
06/21/2017

### 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
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	8.0	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
67-64-1	Acetone	21		ug/m <sup>3</sup>	9.3	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.3	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.3	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	10	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	13	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	20	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.6	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	6.1	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.1	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	9.0	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.2	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.6	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	4.0	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.8	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.9	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.8	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	17	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
75-71-8	Dichlorodifluoromethane	180		ug/m <sup>3</sup>	9.7	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	14	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.5	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	21	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
67-63-0	Isopropanol	25		ug/m <sup>3</sup>	9.6	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS



## Sample Information

**Client Sample ID:** XP3 (17350/F 1)

**York Sample ID:** 17F0808-02

**York Project (SDG) No.**  
17F0808

**Client Project ID**  
AC Middletown VES 4 Function

**Matrix**  
Soil Vapor

**Collection Date/Time**  
June 20, 2017 12:37 pm

**Date Received**  
06/21/2017

### 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
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	8.0	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	7.1	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	14	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	8.0	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.9	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.5	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	17	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.6	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.4	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.4	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>1700</b>		ug/m <sup>3</sup>	3.3	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	12	19.61	EPA TO-15 Certifications:	06/22/2017 00:25	06/22/2017 00:25	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	7.4	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.8	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.9	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
79-01-6	<b>Trichloroethylene</b>	<b>8.4</b>		ug/m <sup>3</sup>	2.6	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.9	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.6	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	5.0	19.61	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 00:25	06/22/2017 00:25	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: p-Bromofluorobenzene	96.5 %	72-118							





## Sample Information

**Client Sample ID:** XP1 (466/F 21)

**York Sample ID:** 17F0808-03

York Project (SDG) No.

17F0808

Client Project ID

AC Middletown VES 4 Function

Matrix

Soil Vapor

Collection Date/Time

June 20, 2017 12:47 pm

Date Received

06/21/2017

### 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	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	10	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	14	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	10	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.6	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.3	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	15	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.6	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.7	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	13	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.3	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	13	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	8.7	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	14	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.6	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	15	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	30	18.88	EPA TO-15 Certifications:	06/22/2017 01:13	06/22/2017 01:13	LDS





## Sample Information

**Client Sample ID:** XP1 (466/F 21)

**York Sample ID:** 17F0808-03

York Project (SDG) No.

17F0808

Client Project ID

AC Middletown VES 4 Function

Matrix

Soil Vapor

Collection Date/Time

June 20, 2017 12:47 pm

Date Received

06/21/2017

### 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
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.7	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
67-64-1	<b>Acetone</b>	<b>9.0</b>		ug/m <sup>3</sup>	9.0	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.1	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.0	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	9.8	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	13	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	20	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.9	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.0	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.7	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.0	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.2	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.9	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.6	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.5	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	16	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>12</b>		ug/m <sup>3</sup>	9.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	14	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.2	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	20	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS



## Sample Information

**Client Sample ID:** XP1 (466/F 21)

**York Sample ID:** 17F0808-03

York Project (SDG) No.

17F0808

Client Project ID

AC Middletown VES 4 Function

Matrix

Soil Vapor

Collection Date/Time

June 20, 2017 12:47 pm

Date Received

06/21/2017

### 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
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.7	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.8	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	13	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.7	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.7	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.2	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	16	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.2	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.0	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>1900</b>		ug/m <sup>3</sup>	3.2	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	11	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	7.1	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.5	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.6	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
79-01-6	<b>Trichloroethylene</b>	<b>5.1</b>		ug/m <sup>3</sup>	2.5	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.6	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.3	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.8	18.88	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 01:13	06/22/2017 01:13	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: p-Bromofluorobenzene	93.2 %	72-118							



## Sample Information

**Client Sample ID:** XP2 (15524/F 29)

**York Sample ID:** 17F0808-04

York Project (SDG) No.

17F0808

Client Project ID

AC Middletown VES 4 Function

Matrix

Soil Vapor

Collection Date/Time

June 20, 2017 12:53 pm

Date Received

06/21/2017

### 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	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	11	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	15	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	11	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.8	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.7	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.5	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	15	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.8	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.9	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	13	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.5	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	13	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	8.9	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	12	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	14	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
78-93-3	2-Butanone	ND		ug/m <sup>3</sup>	5.7	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	16	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	30	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS



## Sample Information

**Client Sample ID:** XP2 (15524/F 29)

**York Sample ID:** 17F0808-04

York Project (SDG) No.  
17F0808

Client Project ID  
AC Middletown VES 4 Function

Matrix  
Soil Vapor

Collection Date/Time  
June 20, 2017 12:53 pm

Date Received  
06/21/2017

### 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
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.9	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
67-64-1	Acetone	ND		ug/m <sup>3</sup>	9.2	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	4.2	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
71-43-2	Benzene	ND		ug/m <sup>3</sup>	6.2	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	10	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	13	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	20	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.5	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	6.0	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	3.0	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
108-90-7	Chlorobenzene	ND		ug/m <sup>3</sup>	8.9	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	5.1	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.4	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	4.0	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>24</b>		ug/m <sup>3</sup>	7.7	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.8	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.6	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	16	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.5	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	14	19.31	EPA TO-15 Certifications:	06/22/2017 02:01	06/22/2017 02:01	LDS
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.4	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	21	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
67-63-0	Isopropanol	ND		ug/m <sup>3</sup>	9.5	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS



## Sample Information

**Client Sample ID:** XP2 (15524/F 29)

**York Sample ID:** 17F0808-04

York Project (SDG) No.

17F0808

Client Project ID

AC Middletown VES 4 Function

Matrix

Soil Vapor

Collection Date/Time

June 20, 2017 12:53 pm

Date Received

06/21/2017

### 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
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.9	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	7.0	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	13	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.9	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.8	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.4	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
179601-23-1	p- & m- Xylenes	ND		ug/m <sup>3</sup>	17	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m <sup>3</sup>	9.5	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
115-07-1	* Propylene	ND		ug/m <sup>3</sup>	3.3	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
100-42-5	Styrene	ND		ug/m <sup>3</sup>	8.2	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>5900</b>		ug/m <sup>3</sup>	3.3	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	11	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
108-88-3	Toluene	ND		ug/m <sup>3</sup>	7.3	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.7	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.8	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
79-01-6	<b>Trichloroethylene</b>	<b>51</b>		ug/m <sup>3</sup>	2.6	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	11	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.8	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	8.4	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.9	19.31	EPA TO-15 Certifications: NELAC-NY10854-Queens,NJDEP-Queens	06/22/2017 02:01	06/22/2017 02:01	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: p-Bromofluorobenzene	94.4 %	72-118							



## Analytical Batch Summary

**Batch ID:** BF71200

**Preparation Method:** EPA TO15 PREP

**Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
17F0808-01	XP4 (18310/F 25)	06/21/17
17F0808-02	XP3 (17350/F 1)	06/22/17
17F0808-03	XP1 (466/F 21)	06/22/17
17F0808-04	XP2 (15524/F 29)	06/22/17
BF71200-BLK1	Blank	06/21/17
BF71200-BS1	LCS	06/21/17



## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BF71200 - EPA TO15 PREP

##### Blank (BF71200-BLK1)

Prepared & Analyzed: 06/21/2017

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m <sup>3</sup>
1,1,1-Trichloroethane	ND	0.55	"
1,1,2,2-Tetrachloroethane	ND	0.69	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"
1,1,2-Trichloroethane	ND	0.55	"
1,1-Dichloroethane	ND	0.40	"
1,1-Dichloroethylene	ND	0.40	"
1,2,4-Trichlorobenzene	ND	0.74	"
1,2,4-Trimethylbenzene	ND	0.49	"
1,2-Dibromoethane	ND	0.77	"
1,2-Dichlorobenzene	ND	0.60	"
1,2-Dichloroethane	ND	0.40	"
1,2-Dichloropropane	ND	0.46	"
1,2-Dichlorotetrafluoroethane	ND	0.70	"
1,3,5-Trimethylbenzene	ND	0.49	"
1,3-Butadiene	ND	0.66	"
1,3-Dichlorobenzene	ND	0.60	"
1,3-Dichloropropane	ND	0.46	"
1,4-Dichlorobenzene	ND	0.60	"
1,4-Dioxane	ND	0.72	"
2-Butanone	ND	0.29	"
2-Hexanone	ND	0.82	"
3-Chloropropene	ND	1.6	"
4-Methyl-2-pentanone	ND	0.41	"
Acetone	ND	0.48	"
Acrylonitrile	ND	0.22	"
Benzene	ND	0.32	"
Benzyl chloride	ND	0.52	"
Bromodichloromethane	ND	0.67	"
Bromoform	ND	1.0	"
Bromomethane	ND	0.39	"
Carbon disulfide	ND	0.31	"
Carbon tetrachloride	ND	0.16	"
Chlorobenzene	ND	0.46	"
Chloroethane	ND	0.26	"
Chloroform	ND	0.49	"
Chloromethane	ND	0.21	"
cis-1,2-Dichloroethylene	ND	0.40	"
cis-1,3-Dichloropropylene	ND	0.45	"
Cyclohexane	ND	0.34	"
Dibromochloromethane	ND	0.85	"
Dichlorodifluoromethane	ND	0.49	"
Ethyl acetate	ND	0.72	"
Ethyl Benzene	ND	0.43	"
Hexachlorobutadiene	ND	1.1	"
Isopropanol	ND	0.49	"
Methyl Methacrylate	ND	0.41	"
Methyl tert-butyl ether (MTBE)	ND	0.36	"
Methylene chloride	ND	0.69	"
n-Heptane	ND	0.41	"



## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BF71200 - EPA TO15 PREP

##### Blank (BF71200-BLK1)

Prepared & Analyzed: 06/21/2017

n-Hexane	ND	0.35	ug/m <sup>3</sup>								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.26	"								

Surrogate: p-Bromofluorobenzene	9.39		ppbv	10.0		93.9	72-118				
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##### LCS (BF71200-BS1)

Prepared & Analyzed: 06/21/2017

1,1,1,2-Tetrachloroethane	10.7		ppbv	10.0		107	70-130				
1,1,1-Trichloroethane	11.6		"	10.0		116	70-130				
1,1,2,2-Tetrachloroethane	10.3		"	10.0		103	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4		"	10.0		114	70-130				
1,1,2-Trichloroethane	9.23		"	10.0		92.3	70-130				
1,1-Dichloroethane	10.8		"	10.0		108	70-130				
1,1-Dichloroethylene	11.4		"	10.0		114	70-130				
1,2,4-Trichlorobenzene	8.68		"	10.0		86.8	70-130				
1,2,4-Trimethylbenzene	11.3		"	10.0		113	70-130				
1,2-Dibromoethane	9.69		"	10.0		96.9	70-130				
1,2-Dichlorobenzene	11.0		"	10.0		110	70-130				
1,2-Dichloroethane	10.7		"	10.0		107	70-130				
1,2-Dichloropropane	9.20		"	10.0		92.0	70-130				
1,2-Dichlorotetrafluoroethane	9.05		"	10.0		90.5	70-130				
1,3,5-Trimethylbenzene	10.9		"	10.0		109	70-130				
1,3-Butadiene	7.45		"	10.0		74.5	70-130				
1,3-Dichlorobenzene	11.0		"	10.0		110	70-130				
1,3-Dichloropropane	9.61		"	10.0		96.1	70-130				
1,4-Dichlorobenzene	11.2		"	10.0		112	70-130				
1,4-Dioxane	9.01		"	10.0		90.1	70-130				
2-Butanone	9.25		"	10.0		92.5	70-130				
2-Hexanone	8.14		"	10.0		81.4	70-130				
3-Chloropropene	10.2		"	10.0		102	70-130				
4-Methyl-2-pentanone	8.36		"	10.0		83.6	70-130				
Acetone	7.88		"	10.0		78.8	70-130				
Acrylonitrile	10.5		"	10.0		105	70-130				
Benzene	10.1		"	10.0		101	70-130				
Benzyl chloride	9.87		"	10.0		98.7	70-130				
Bromodichloromethane	9.95		"	10.0		99.5	70-130				
Bromoform	11.5		"	10.0		115	70-130				
Bromomethane	9.84		"	10.0		98.4	70-130				
Carbon disulfide	12.1		"	10.0		121	70-130				





## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BF71200 - EPA TO15 PREP

#### LCS (BF71200-BS1)

Prepared & Analyzed: 06/21/2017

Carbon tetrachloride	11.5		ppbv	10.0		115	70-130				
Chlorobenzene	10.2		"	10.0		102	70-130				
Chloroethane	15.0		"	10.0		150	70-130	High Bias			
Chloroform	11.0		"	10.0		110	70-130				
Chloromethane	7.36		"	10.0		73.6	70-130				
cis-1,2-Dichloroethylene	8.94		"	10.0		89.4	70-130				
cis-1,3-Dichloropropylene	10.8		"	10.0		108	70-130				
Cyclohexane	11.4		"	10.0		114	70-130				
Dibromochloromethane	10.2		"	10.0		102	70-130				
Dichlorodifluoromethane	11.9		"	10.0		119	70-130				
Ethyl acetate	9.65		"	10.0		96.5	70-130				
Ethyl Benzene	10.9		"	10.0		109	70-130				
Hexachlorobutadiene	12.2		"	10.0		122	70-130				
Isopropanol	9.75		"	10.0		97.5	70-130				
Methyl Methacrylate	9.63		"	10.0		96.3	70-130				
Methyl tert-butyl ether (MTBE)	11.8		"	10.0		118	70-130				
Methylene chloride	9.98		"	10.0		99.8	70-130				
n-Heptane	9.91		"	10.0		99.1	70-130				
n-Hexane	9.64		"	10.0		96.4	70-130				
o-Xylene	10.9		"	10.0		109	70-130				
p- & m- Xylenes	21.2		"	20.0		106	70-130				
p-Ethyltoluene	11.8		"	10.0		118	70-130				
Propylene	9.40		"	10.0		94.0	70-130				
Styrene	10.3		"	10.0		103	70-130				
Tetrachloroethylene	8.98		"	10.0		89.8	70-130				
Tetrahydrofuran	10.4		"	10.0		104	70-130				
Toluene	9.50		"	10.0		95.0	70-130				
trans-1,2-Dichloroethylene	11.2		"	10.0		112	70-130				
trans-1,3-Dichloropropylene	10.0		"	10.0		100	70-130				
Trichloroethylene	9.76		"	10.0		97.6	70-130				
Trichlorofluoromethane (Freon 11)	12.1		"	10.0		121	70-130				
Vinyl acetate	9.78		"	10.0		97.8	70-130				
Vinyl bromide	13.8		"	10.0		138	70-130	High Bias			
Vinyl Chloride	8.36		"	10.0		83.6	70-130				
Surrogate: p-Bromofluorobenzene	10.2		"	10.0		102	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.
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average $R_f$ ). 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.

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## 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. 17-0808

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type/Deliverables	
Company: Mid-Hudson Geosciences	Company: American Cleaners	Address: 1003 Rt 44/55 Clintondale, NY 12515		Address: 360 Rt 211 East Middletown, NY 10940		Purchase Order No. 845 343 1100 x 102		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"/>		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 checked="" type="checkbox"/> NJDEP Reduced <input type="checkbox"/> <u>Electronic Deliverables:</u> EDD (Specify Type) NY Standard Excel <input checked="" type="checkbox"/> Regulatory Comparison Excel <input type="checkbox"/>	
Phone No. 845 883 5726	Phone No. 845 343 1100 x 102	Attention: Katherine Beinkafner		Attention: Ms. Erez Haleva		E-Mail Address: rockdoctor@optonline.net		Samples from: CT NY NJ			
<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>											
Katherine J. Beinkafner Samples Collected/Authorized By (Signature) Katherine J. Beinkafner 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 <input checked="" type="checkbox"/> NYSDEC VI list Tentatively Identified Compounds Air VPH Helium Methane OTHER		Detection Limits Required <input checked="" type="checkbox"/> ≤ 1 ug/m <sup>3</sup> NYSDEC VI Limits (VI - vapor intrusion) NJDEP low level Routine Survey Other		<b>Special Instructions</b>	
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			
XP4 (18310/F25)	6/20/17 12:23PM	AS	29	2	EPA TO-15 LIST			6 Liter Summa canister <input checked="" type="checkbox"/> Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister <input checked="" type="checkbox"/> Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister <input checked="" type="checkbox"/> Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister Tedlar Bag 6 Liter Summa canister Tedlar Bag			
XP3 (17850/F1)	6/20/17 12:07PM	AS	36	6	EPA TO-15 LIST						
XP1 (466/F21)	6/20/17 12:47PM	AS	27	0	EPA TO-15 LIST						
XP2 (15524/F-29)	6/20/17 12:53PM	AS	29	3.5	EPA TO-15 LIST						
Comments ALL CANISTERS WERE OPEN FOR SIXTY MINUTES, chem of concern: PCB											
Katherine Beinkafner 6/21/17 8:04AM						Samples Received By 6/21/17 19:00					
Samples Relinquished By 6/21/17 7:00						Samples Received in LAB by					

**Appendix C-1**  
**Data Usability Summary Reports**  
**For Soil Vapor, Soil & Groundwater Sampling**  
**2010 & 2012**  
**Prepared by EnviroAnalytics**  
**Identified by 11 Reports Prepared by**  
**York Analytical Laboratories & Alpha Analytical**  
**for**  
**American Cleaners Middletown**  
**Orange County, New York**

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**Remedial Investigation/  
Alternative Analysis Report:  
Operable Unit #2 Groundwater  
NYSDEC Site Number: V-00461-3**

**Prepared for:**  
AMERICAN CLEANERS, Inc.

360 Route 211 East

Middletown, NY 10940

**Prepared by:**  
Jansen Engineering, PLLC  
72 Coburn Drive  
Poughkeepsie, NY 12603  
(845) 505-0324  
and  
Mid-Hudson Geosciences  
1003 Route 44/55, PO Box 32  
Clintondale, NY 12615-0032  
(845) 883-5726

**JANUARY 2018**

**Table 1**

Listing of All Laboratory Reporting for American Cleaners Middletown, NY  
Caldor Lloyds Mall, 360 Route 211 East, Middletown, NY 10940  
NYSDEC Voluntary Cleanup Program V-00461

Under direction of Jansen Engineering, PLLC and Mid-Hudson Geosciences (2010 to 2012)  
All analyses were for Volatile Organic Compounds: Soil and Water US EPA Method SW846-8260B  
Soil Vapor EPA Compendium TO14A/TO15  
Appendix Number is that for this Report, Provided on CD in both PDF and EDD. ASP-B is not included.  
York = York Analytical Laboratories, Inc. 120 Research Drive, Stratford, CT 06615  
Alpha = Alpha Analytical, 320 Forbes Boulevard, Mansfield, MA 02048-1806

Appendix Number	Program	Matrix	Location	Number of Samples/ Blanks	Date of Sampling	Laboratory	Report Identification	Final Report Date	ASP-B Report Date	Report & Table Proposed	Lab Result Table	Lab Results Map	This Report Table of Results	Map of Results
D	<u><b>Investigations</b></u>													
D	Prelim SV Pilot Test	Soil	parking lot	11/2	05/16/12	York	12E0631	05/24/12	06/11/12	N/A	Rpt1:1	R1:Fig1	13	5-15
D	Re-Evaluation													
		Soil	parking lot	14/2	07/25/12	York	12G0902	08/06/12	01/16/13	Rpt1:2,3	Rpt3:4	Here	14	5-15
		Soil	sub-slab	2/2	09/27/12	York	12J0066	10/09/12	01/23/13	Rpt1:2,3	Rpt3:5	Here	15	5-10
		Soil Vapor	parking lot	2	08/14/12 *	Alpha	L1214558	08/27/12		Rpt1:2,3	Here	Here	16	5-17
		Groundwater	downgradient	7/2	07/11/12	York	12G0446	07/27/12		Rpt1:2,3	Here	Here	17	5-18
D	RIR	Groundwater	all mon wells	25/2	01/15/10	York	10010484	01/25/10		letter	RIR:4	RIR:Fig5-5	4	5-5
D	<u><b>Remedial Actions</b></u>													
D	Remedy - VES	Soil Vapor	Building	1	08/14/12 *	Alpha	L1214558	08/27/12		Rpt1:2,3	Rpt2:p1	Rpt2:Fig1	18	5-17
			VES	1/2	09/27/12	York	12J0066	10/09/12	01/23/13	Rpt2:2	Here	Here	19	5-19g
			VES	1	10/07/12	York	12J0332	10/17/12	11/22/12	Rpt2:2	Here	Here	19	5-19g
			VES	1	11/29/12	York	12L0054	12/10/12		Rpt2:2	Here	Here	19	5-19g
D	Remedy -Backdoor	Soil -back door in parking lot		14/2	07/25/12	York	12G0902	08/06/12	01/16/13	Rpt1:2,3	Rpt3:4	Rpt2:Fig2	13,14	21
		Soil - waste classification		2	10/11/12	York	12J0483	10/16/12		N/A	Rpt3:6	Here	21	21
		Soil - excavation confirmation		7/2	11/29/12	York	12L0069	12/12/12		Rpt3:7	Here	Here	22	22

Notes: \* Same lab report represents two different sample locations and categories in this report  
Rpt1 = Remedial Investigation Work Plan: Re-Evaluation of On-Site Contaminants, June 2012, Prepared by Jansen Engineering, PLLC and Mid-Hudson Geosciences  
Rpt2 = Modification to February 7, 2012 Remedial Action Work Plan RE: Pilot Test, Design and VES Installation, September 2012, Prepared by Jansen Engineering. PLLC and Mid-Hudson Geosciences  
Rpt3 = Modification 2 for February 2012 Remedial Action Work Plan RE: Backdoor Site Excavation, October 29, 2012, prepared by Jansen Engineering, PLLC and Mid-Hudson Geosciences  
RIR = Remedial Investigation Report for American Cleaners Middletown, Caldor Lloyds Mall, 360 Route 211 East, April 10, 2010, prepared by Mid-Hudson Geosciences  
5-19g means figure 5-19 is a graph     Here means this report

# **Data Usability Summary Report**

**American Cleaners  
Middletown, NY**

## **Air and Soil Vapor Samples**

York Analytical Laboratories, Inc. SDG # 12J0066

York Analytical Laboratories, Inc. SDG # 12J0332

York Analytical Laboratories, Inc. SDG # 12L0054

Alpha Analytical SDG # L1214558

**March 2013**



## **Data Usability Summary Report**

### **Air and Soil Vapor Samples**

**York Analytical Laboratories, Inc. SDG # 12J0066**

**York Analytical Laboratories, Inc. SDG # 12J0322**

**York Analytical Laboratories, Inc. SDG # 12L0054**

**Alpha Analytical SDG # L1214558**

**American Cleaners  
Middletown, NY**

### **Prepared By:**

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## **EXECUTIVE SUMMARY**

This report addresses data quality for air and soil vapor samples collected at the American Cleaners site located in Middletown, New York. The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Jansen Engineering, PLLC located in Poughkeepsie, New York and Mid-Hudson Geosciences located in Clintondale, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut and Alpha Analytical located in Westborough, Massachusetts.

The TO-15 volatile organic analyses data were determined to be usable for qualitative and quantitative purposes with the exception of the non-detected result for vinyl acetate for sample VES 092712 which was rejected due to laboratory control sample and continuing calibration deviations. Sample results for several compounds were qualified based on deviations from blank analysis, initial calibration, continuing calibration, and laboratory control sample criteria.

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## **SECTION 1 - INTRODUCTION**

### **1.1 Introduction**

This report addresses data quality for air and soil vapor samples collected at the American Cleaners site located in Middletown, New York. The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Jansen Engineering, PLLC located in Poughkeepsie, New York and Mid-Hudson Geosciences located in Clintondale, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut and Alpha Analytical located in Westborough, Massachusetts. The quantity and type of samples submitted for data validation are tabulated below.

**Table 1: Introduction - Sample Summary Table**

SDG#	Date Collected	Sample Matrix	Sample Identification	
			Client ID	Laboratory ID
York Analytical Laboratories, Inc. 12J0066	9/27/2012	Soil Vapor	VES 092712	12J0066-05
York Analytical Laboratories, Inc. 12J0322	10/07/2012	Soil Vapor	VES 100712 York Canister #11	12J0322-01
York Analytical Laboratories, Inc. 12L0054	11/29/2012	Soil Vapor	VES 112912	12L0054-01
Alpha Analytical L1214558	8/14/2012	Air/Soil Vapor	SG25 SG12 XP2	L1214558-01 L1214558-02 L1214558-03

### **1.2 Analytical Methods**

The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies (2005 update). Laboratory analyses were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut and Alpha Analytical located in Westborough, Massachusetts.

### **1.3 Validation Protocols**

Data validation is a process that involves the evaluation of analytical data against prescribed quality control criteria to determine the usefulness of the data. The analytical data addressed in this report were evaluated utilizing the quality control criteria presented in the following documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, EPA-540-R-08-01, June 2008.
- *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.
- *Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP No. HW-24 Revision #2, USEPA Hazardous Waste Support Branch, October 2006.

- *Validating Air Samples Volatile Organic Analysis of Ambient Air in Canister by Method TO-15*, SOP No. HW-31 Revision #4, USEPA Hazardous Waste Support Branch, October 2006.
- *Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP)*, NYSDEC June 2005.

### **1.3.1 Organic Parameters**

The validation of organic parameters for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

#### **Volatile Organics Analyses**

1. Holding Times
2. GC/MS Instrument Tuning Criteria
3. Calibration
  - a. Initial Calibration
  - b. Continuing Calibration
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike / Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Internal Standards Recovery
9. Compound Identification and Quantification
10. Field Duplicate Analysis
11. System Performance
12. Documentation Completeness
13. Overall Data Assessment

### **1.4 Data Qualifiers**

The following qualifiers as specified in the guidance documents presented in Section 1.3 of this report have been used for this data validation.

- |    |  |
|----|--|
| U  | Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination. |
| J  | Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.  |
| UJ | Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.  |

- R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

The following sections of this document present a summary of the data validation process. Section 2 discusses data compliance with established QA/QC criteria and qualifications performed on the sample data. A discussion of the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) of the data and data usability are discussed in Section 3. The USEPA Region II Data Validation Checklist is presented in Appendix A.

## **SECTION 2 - DATA VALIDATION SUMMARY**

This section presents a discussion of QA/QC parameter compliance with established criteria and the qualification of data performed when QA/QC parameter deviations were identified. When several deviations from established QA/QC criteria were observed, the final qualifier assigned to the data was based on the cumulative effect of the deviations.

### **2.1 Volatile Organics Analysis**

Data validation was performed for one air sample and five soil vapor samples. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

#### **Blank Analysis**

The method blanks contained detectable concentrations of several target compounds. Blank action levels were calculated at ten times the blank concentrations for the common laboratory contaminants and five times for other target compounds. Detected sample results, which were less than the blank action levels were qualified with a "U" in the associated samples. Results that were detected below the contract required detection limit (CRDL) were raised to the CRDL and qualified with a "U" qualifier. The "U" qualifier indicates that the volatile organic was analyzed for but was not detected above the CRDL. Samples qualified for blank contamination are tabulated below.

**Table 2: Volatile Organics Analyses - Blank Analysis Deviations**

Blank Matrix	Date Analyzed	Compound	Blank Action Level	Associated Samples	Qualified Sample Result
Air	10/08/2012	Methylene Chloride	3.9 µg/ m <sup>3</sup>	VES 092712	4.0 U µg/ m <sup>3</sup>
Air	10/16/2012	Methylene Chloride	1.1 ppbv	VES 100712 York Canister #11	0.33 U ppbv

#### **Initial Calibration**

The initial calibration relative standard deviation (%RSD) limit, which requires the %RSD to be less than 40 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %RSD criteria were exceeded. Samples requiring qualification due to these deviations are tabulated below.

**Table 3: Volatile Organics Analyses - Initial Calibration Deviations**

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
10/16/2012	Benzyl Chloride	47.39 %	UJ	VES 100712 York Canister #11

### **Continuing Calibration**

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Non-detected sample results were rejected (R) for compounds with %D values greater than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

**Table 4: Volatile Organics Analyses - Continuing Calibration Deviations**

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
10/08/2012 12:12	Vinyl Acetate Ethyl Acetate 1,2,4-Trichlorobenzene Hexachlorobutadiene	98.8 % 52.4 % 61.8 % 77.0 %	R UJ UJ UJ	VES 092712
10/15/2012 23:44	1,2,4-Trichlorobenzene Vinyl Acetate Benzyl Chloride Hexachlorobutadiene 1,2-Dichlorobenzene 1,3-Dichlorobenzene	77.4 % 33.1 % 44.4 % 39.7 % 34.9 % 35.3 %	UJ UJ UJ UJ UJ UJ	VES 100712 York Canister #11
12/06/2012 05:38	Hexachlorobutadiene 1,2,4-Trichlorobenzene	41.0 % 37.2 %	UJ UJ	VES 112912

### **Laboratory Control Sample Analysis**

Laboratory control sample (LCS) recovery criteria requiring compound recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries that were less than 10 percent. Samples qualified due to LCS recovery deviations are tabulated below.

**Table 5: Volatile Organics Analyses - Laboratory Control Sample Deviations**

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Air	Vinyl Acetate Styrene	1.34 % 135 %	58.1 to 135 % 66.4 to 132 %	R J	VES 092712
Air	Vinyl Acetate Benzyl Chloride	47.7 % 60.2 %	58.1 to 135 % 62.5 to 150 %	UJ UJ	VES 112912

### **Sample Dilution**

Compound concentrations for several samples exceeded the linear calibration range of the analytical system when analyzed with an un-diluted sample aliquot. The laboratory re-analyzed these samples with a diluted sample aliquot to properly quantify the compound concentration within the range of the analytical system. The laboratory flagged compound concentrations that exceeded the analytical system's calibration range



with an “E” qualifier in the un-diluted sample aliquots. The diluted sample results should be used in place of the “E” qualified sample results as shown in the following table.

**Table 6: Volatile Organics Analysis - Sample Dilution Table**

Sample ID	Compound	Sample Results (ppbv/ $\mu\text{g}/\text{m}^3$ )	
		Un-Diluted	Diluted
XP2	Tetrachloroethene	4010 E/27,200 E	3890/26,400

### **Overall Data Assessment**

Overall, the laboratory performed volatile organic analyses in accordance with the requirements specified in the methods listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with the exception of the non-detected result for vinyl acetate for sample VES 092712 which was rejected due to laboratory control sample and continuing calibration deviations. Sample results for several compounds were qualified based on deviations from blank analysis, initial calibration, continuing calibration, and laboratory control sample criteria.

## **SECTION 3 - DATA USABILITY and PARCC EVALUATION**

### **3.1 Data Usability**

This section presents a summary of the usability of the analytical data and an evaluation of the PARCC parameters. Data usability was calculated as the percentage of data that was not qualified as rejected based on a significant deviation from established QA/QC criteria. Data usability which was calculated separately for each type of analysis is tabulated below.

**Table 7: Data Usability and PARCC Evaluation - Data Usability**

<b>Parameter</b>	<b>Usability</b>	<b>Deviations</b>
TO-15 Volatile Organics	99.74 %	Non-detected result for vinyl acetate for sample VES 092712 was rejected due to laboratory control sample and continuing calibration deviations

### **3.2 PARCC Evaluation**

The following sections provide an evaluation of the analytical data with respect to the precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters.

#### **3.2.1 Precision**

Precision is measured through field duplicate samples, split samples, and laboratory duplicate samples. For this sampling program, none of the data were qualified for field or laboratory duplicate criteria deviations.

#### **3.2.2 Accuracy**

Matrix spike sample, surrogate recovery, internal standard recovery, laboratory control samples, and calibration criteria indicate the accuracy of the data. For this sampling program, none of the analytical data were qualified for deviations from matrix spike recovery criteria; none of the data were qualified for surrogate recovery criteria deviations; none of the data were qualified for internal standard recovery criteria deviations; 1.04 percent of the data were qualified for laboratory control sample deviations; and 3.38 percent of the data were qualified for calibration criteria deviations.

#### **3.2.3 Representativeness**

Holding times, sample preservation, and blank analysis are indicators of the representativeness of the analytical data. For this investigation, none of the analytical data required qualification for holding time deviations and 0.52 percent of the analytical data required qualification for blank analysis deviations.

#### **3.2.4 Comparability**

Comparability is not compromised provided that the analytical methods did not change over time. A major component of comparability is the use of standard reference materials for calibration and QC. These standards are compared to other unknowns to verify their concentrations. Since standard analytical methods and reporting procedures

were consistently used by the laboratory, the comparability criteria for the analytical data were met.

#### **3.2.5 Completeness**

The percent usability or completeness of the data was determined to be 99.74 percent.

# **APPENDIX A**

## **DATA VALIDATION CHECKLISTS**

## **Table of Contents**

	<b><u>Page</u></b>
I. Part A: TO-15 VOA Analyses	2

## Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
<b>1.0</b>	<b><u>Data Completeness and Deliverables</u></b>			
1.1	Have any missing deliverables been received and added to the data package?		X	
<b>2.0</b>	<b><u>Cover Letter, Narrative, and Data Reporting Forms</u></b>			
2.1	Is the Lab. Narrative and Cover Page Present?	X		
2.2	Is Case Number contained in the Narrative?	X		
2.3	Are the following Data Reporting Forms present?			
	Analysis Data Sheet [Form I/Equivalent]	X		
	Tentatively Identified Compounds [Form I-TIC]	X		
	Blank Summary [Form IV/Equivalent]	X		
	Laboratory Control Sample Data Sheet [Form III/Equivalent]	X		
	GC/MS Instrument Performance Check and Mass Calibration [Form V/Equivalent]	X		
	Initial Calibration [Form VI/Equivalent]	X		
	Continuing Calibration [Form VII/Equivalent]	X		
	Internal Standard Area and RT Summary [Form VIII/Equivalent]	X		
	Canister Certification [Form IX/Equivalent]	X		
<b>3.0</b>	<b><u>Canister Receipt/Log-in Sheet</u></b>			
3.1	Do all info items agree with each sample?	X		
<b>4.0</b>	<b><u>Traffic Reports and Laboratory Narrative</u></b>			
4.1	Are the Traffic Report Forms present for all samples?	X		
<b>5.0</b>	<b><u>Holding Times</u></b>			
5.1	Have any VOA technical holding times of 30 days, determined from the date of sample collection to the date of analysis, been exceeded?		X	
<b>6.0</b>	<b><u>Leak Test Evaluation</u></b>			
6.1	Did the pressure test not vary by more than $\pm 13.8$ kPa ( $\pm 2$ psi) over the 24 hours period?	X		
<b>7.0</b>	<b><u>Canister Certification Form IX/Equivalent</u></b>			
7.1	Blank Analysis			
	Were the <u>target</u> analytes < the required detection limits specified in the task order?	X		
7.2	Is the canister certification form provided, and the associated canister sample identification included? When contamination, included contamination detected (all raw data), analyte and reference mass spectra.	X		

### Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
<b>8.0</b>	<b><u>Laboratory Control Samples</u></b>			
8.1	Is an LCS Data Sheet [Form III/Equivalent] present and complete for each LCS?	<u>X</u>	<u>      </u>	<u>      </u>
8.2	Was an LCS prepared (10 ppbv total scan, 0.1 ppbv SIM) and analyzed at the required frequency (once per 24 hour analytical sequence, and concurrently with the samples in the SDG)?	<u>X</u>	<u>      </u>	<u>      </u>
8.3	Are there any transcription/calculation errors between the raw data and Form III/Equivalent?	<u>X</u>	<u>      </u>	<u>      </u>
8.4	Is the % recovery within 70 – 130 % for each LCS <u>target compound</u> reported on Form III/Equivalent?	<u>      </u>	<u>X</u>	<u>      </u>
8.5	Is the RT of <u>each reported LCS compound</u> within the windows established during the most recent valid calibration?	<u>X</u>	<u>      </u>	<u>      </u>
8.6	Do the Internal Standards meet the requirements specified in Sections 18.1 and 18.2?	<u>X</u>	<u>      </u>	<u>      </u>
<b>9.0</b>	<b><u>GC/MS Instrument Performance Check</u></b>			
9.1	Are the GC/MS Instrument Performance Check Forms [Form V/Equivalent] present for Bromofluorobenzene (BFB)?	<u>X</u>	<u>      </u>	<u>      </u>
9.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the 50 ng BFB provided for each twenty-four hour shift?	<u>X</u>	<u>      </u>	<u>      </u>
9.3	Has the instrument performance compound been analyzed for every twenty-four hours of sample analysis per instrument?	<u>X</u>	<u>      </u>	<u>      </u>
9.4	Have the ion abundances been normalized to m/z 95?	<u>X</u>	<u>      </u>	<u>      </u>
9.5	Have the ion abundance criteria been met for each instrument used?	<u>X</u>	<u>      </u>	<u>      </u>
9.6	Are there any transcription/calculation errors between mass lists and Form Vs?	<u>      </u>	<u>X</u>	<u>      </u>
9.7	Have the appropriate number of significant figures (two) been reported?	<u>X</u>	<u>      </u>	<u>      </u>
9.8	Are the spectra of the mass calibration compound acceptable?	<u>X</u>	<u>      </u>	<u>      </u>
<b>10.0</b>	<b><u>Performance Evaluation Sample (Optional)</u></b>			
10.1	Was a PE sample submitted from the Agency with each SDG?	<u>      </u>	<u>      </u>	<u>X</u>
10.2	Do the Internal Standards meet the requirements specified in Section 18.1 and 18.2?	<u>      </u>	<u>      </u>	<u>X</u>
<b>11.0</b>	<b><u>Laboratory Method Blanks</u></b>			
11.1	Is an Analysis Data Sheet [Form IV/Equivalent] present and complete for each method blank?	<u>X</u>	<u>      </u>	<u>      </u>
11.2	Frequency of Analysis:			
	Has a method blank analysis been reported per instrument for each 24-hour analytical sequence?	<u>X</u>	<u>      </u>	<u>      </u>
	Has a method blank been analyzed after the initial calibration or a valid calibration check standard, and before the LCS, prior to sample analysis?	<u>X</u>	<u>      </u>	<u>      </u>
11.3	Is the chromatographic performance (baseline stability) for each instrument acceptable?	<u>X</u>	<u>      </u>	<u>      </u>
11.4	Was the area response of each Internal Standard (IS) in the blank within $\pm 40$ % of the mean area response of the IS of the most recent valid calibration?	<u>X</u>	<u>      </u>	<u>      </u>

### Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
11.5	Were the RTs of each IS within $\pm 0.33$ min (20 sec.) between blanks and most recent valid calibration?	X		
<b>12.0</b>	<b><u>Blank Contamination</u></b>			
12.1	Do any method blanks have positive target and non-target VOA results?	X		
<b>13.0</b>	<b><u>Target Compound Analytes</u></b>			
13.1	Are the Organic Analysis Data Sheets [Form I/Equivalent], VOA chromatograms, and data system printouts present and complete with required header information for each of the following:			
	a. Samples?	X		
	b. Method blanks?	X		
	c. Laboratory Control Sample (LCS)?	X		
	d. Performance Evaluation Sample (PES)?	X		
13.2	Is the chromatographic performance acceptable with respect to:			
	a. Baseline stability?	X		
	b. Resolution?	X		
	c. Peak shape?	X		
	d. Full-scale graph (attenuation)?	X		
	e. Other?			X
13.3	Were any electropositive displacement (negative peaks) or unusual peaks seen?		X	
13.4	Is the sample component relative retention time (RRT) within $\pm 0.06$ RRT units of the RRT of the standard component from the most recent continuing calibration?	X		
13.5	Was Nafion dryer used?		X	
<b>14.0</b>	<b><u>Tentatively Identified Compounds (TIC)</u></b>			
14.1	Are all Tentatively Identified Compound Forms [Form I-TIC] present and are retention time, estimated concentration and "JN" qualifier listed corresponding to each TIC?		X	
14.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following?			
	a. Samples			X
	b. Blanks			X
14.3	Are all ions present in the reference mass spectrum with a relative intensity greater than 10 % also present in the sample mass spectrum?			X
14.4	Do TIC and "best match" standard relative ion intensities agree within 20 %?			X
<b>15.0</b>	<b><u>Initial Calibration and System Performance [Form VI/Equivalent]</u></b>			
15.1	Were each GC/MS system calibrated at 5 concentrations that span the monitoring range of the interest in an initial calibration sequence to determine the sensitivity and the linearity of the GC/MS response for the target compounds?	X		
15.2	Was the same volume introduced into the trap consistently for all field and QC-sample analyses?	X		



## Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
15.3	Was the area response (Y) at each calibration level within $\pm 40\%$ of the mean area response (mean Y) over the initial calibration range for each Internal Standard?	<u>X</u>	<u>      </u>	<u>      </u>
	Did the laboratory tabulate the area response (Y) of the primary ions and the corresponding concentration for each compound and Internal Standard?	<u>X</u>	<u>      </u>	<u>      </u>
15.4	Are the relative retention times (RRTs) for each of the target compounds at each calibration level within $\pm 0.06$ RRT units of the mean relative retention time for the compound?	<u>X</u>	<u>      </u>	<u>      </u>
15.5	Are all individual RRF and average RRFs $\geq 0.050$ ?	<u>X</u>	<u>      </u>	<u>      </u>
15.6	Are the response factors (RF) stable i.e., % Relative Standard Deviation (%RSD) $\leq 40.0\%$ ?	<u>      </u>	<u>X</u>	<u>      </u>
15.7	Are there any transcription/calculation errors in the reporting of average response factors (RRFs) or %RSDs?	<u>      </u>	<u>X</u>	<u>      </u>
15.8	Are the RT shift for each Internal Standard (IS) at each calibration level within 20 seconds of the mean RT over the initial calibration range of each IS?	<u>X</u>	<u>      </u>	<u>      </u>
<b>16.0</b>	<b><u>Daily Calibration (Form VII/Equivalent)</u></b>			
16.1	Are the daily Calibration Forms [Form VII/Equivalent] present and complete for the volatile fraction?	<u>X</u>	<u>      </u>	<u>      </u>
16.2	Has the daily calibration standard (20 ppbv total scan, 0.1 ppbv SIM) been analyzed for every twenty-four hours of sample analysis per instrument after the BFB tuning analysis?	<u>X</u>	<u>      </u>	<u>      </u>
16.3	Do any volatile compounds have a % Difference (%D) between the initial and daily RRFs which exceed the $\pm 30\%$ criteria?	<u>X</u>	<u>      </u>	<u>      </u>
16.4	Are there any transcription/calculation errors in the reporting of the average response factors (RRF) or % difference (%D) between initial and daily RRFs?	<u>      </u>	<u>X</u>	<u>      </u>
<b>17.0</b>	<b><u>Compound Quantitation and Reported Detection Limits</u></b>			
17.1	Are there any transcription/calculations errors in Form I results?	<u>      </u>	<u>X</u>	<u>      </u>
17.2	Are the reported detection limits adjusted to reflect sample dilutions?	<u>X</u>	<u>      </u>	<u>      </u>
17.3	Have any target compound concentrations exceeded the calibration range of the GC?	<u>      </u>	<u>X</u>	<u>      </u>
17.4	Was more than one method of quantitation used to calculate sample results within a batch or 24-hour analytical sequence?	<u>      </u>	<u>X</u>	<u>      </u>
17.5	Did the lab report the target compounds below CRQLs with the suffix "J"?	<u>      </u>	<u>X</u>	<u>      </u>
<b>18.0</b>	<b><u>Internal Standards (Form VIII/Equivalent)</u></b>			
18.1	Are the 3 internal standard areas [Form VIII] of every sample, LCS, PE, and blank within the upper and lower limits ( $+40\%$ to $-40\%$ ) for each continuing calibration or 10 ppbv level of initial calibration?	<u>X</u>	<u>      </u>	<u>      </u>
18.2	Are the internal standard retention times in each sample, LCS, PE, and blank within 20 seconds of the corresponding retention times in the associated calibration standard?	<u>X</u>	<u>      </u>	<u>      </u>
<b>19.0</b>	<b><u>Mass Spectral Interpretation/Identification</u></b>			
19.1	Are the Organic Analysis Data Sheets present with required header information on each page, for each of the following:			
	a. Samples and/or fractions as appropriate?	<u>X</u>	<u>      </u>	<u>      </u>

### Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
	b. Laboratory Control Samples?	<u>  X  </u>	<u>      </u>	<u>      </u>
	c. Blanks?	<u>  X  </u>	<u>      </u>	<u>      </u>
19.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (quant reports) included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?	<u>  X  </u>	<u>      </u>	<u>      </u>
	b. Laboratory Control Samples?	<u>  X  </u>	<u>      </u>	<u>      </u>
	c. Blanks?	<u>  X  </u>	<u>      </u>	<u>      </u>
19.3	Is chromatographic performance acceptable with respect to:			
	a. Baseline stability?	<u>  X  </u>	<u>      </u>	<u>      </u>
	b. Resolution?	<u>  X  </u>	<u>      </u>	<u>      </u>
	c. Peak shape?	<u>  X  </u>	<u>      </u>	<u>      </u>
	d. Full-scale graph (attenuation)?	<u>  X  </u>	<u>      </u>	<u>      </u>
	e. Other:	<u>      </u>	<u>      </u>	<u>  X  </u>
19.4	Are the lab-generated standard mass spectra of the identified compounds present for each sample?	<u>  X  </u>	<u>      </u>	<u>      </u>
19.5	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	<u>  X  </u>	<u>      </u>	<u>      </u>
19.6	Are all ions present in the reference standard mass spectrum at a relative intensity greater than 10 % also present in the sample mass spectrum?	<u>  X  </u>	<u>      </u>	<u>      </u>
19.7	Do sample and reference standard relative ion intensities agree within $\pm 20\%$ ?	<u>  X  </u>	<u>      </u>	<u>      </u>
<b>20.0</b>	<b><u>Field Duplicates</u></b>			
15.1	Were any field duplicates submitted for VOA analysis?	<u>      </u>	<u>  X  </u>	<u>      </u>

# **Data Usability Summary Report**

**American Cleaners  
Middletown, NY**

**Soil and Groundwater Samples  
Collected 2010 and 2012**

**March 2013**

**Data Usability Summary Report**

**Soil and Groundwater Samples  
Collected 2010 and 2012**

**American Cleaners  
Middletown, New York**

**Prepared By:**

**EnviroAnalytics  
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## **EXECUTIVE SUMMARY**

This report addresses data quality for soil and groundwater samples collected at the American Cleaners site located in Middletown, New York. The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Jansen Engineering, PLLC located in Poughkeepsie, New York and Mid-Hudson Geosciences located in Clintondale, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

The volatile organic analyses data were determined to be usable for qualitative and quantitative purposes with the exception of non-detected Vinyl Acetate results for seven samples, 1,4-Dioxane results for thirty-one samples, and Tetrachloroethylene results for six samples that were rejected due to continuing calibration, laboratory control sample analysis, and matrix spike recovery deviations. Sample qualification was also required for several compound results based on deviations from blank analysis, initial calibration, continuing calibration, laboratory control sample recovery, matrix spike recovery, and internal standard recovery deviations.

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## **SECTION 1 - INTRODUCTION**

### **1.1 Introduction**

This report addresses data quality for soil and groundwater samples collected at the American Cleaners site located in Middletown, New York. The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Jansen Engineering, PLLC located in Poughkeepsie, New York and Mid-Hudson Geosciences located in Clintondale, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut. The quantity and types of samples submitted for data validation are tabulated below.

**Table 1: Introduction - Sample Summary Table**

SDG#	Date Collected	Sample Matrix	Sample Identification	
			Client ID	Laboratory ID
10010484	01/14/2010 to 01/17/2010	Soil/Water	T7	10010484-01
			T6	10010484-02
			T5	10010484-03
			MW28	10010484-04
			T4	10010484-05
			T3	10010484-06
			MW24	10010484-07
			MW24 Duplicate	10010484-08
			MW31	10010484-09
			T1	10010484-10
			MW22	10010484-11
			T9	10010484-12
			T8	10010484-13
			MW21	10010484-14
			MW26	10010484-15
			MW25	10010484-16
			MW3	10010484-17
			MW7	10010484-18
			MW6	10010484-19
			MW5	10010484-20
			MW2	10010484-21
			MW30	10010484-22
			MW4	10010484-23
			MW1B	10010484-24
			SW1	10010484-25
			SW2	10010484-26
			TRIP BLANK	10010484-27
			EQUIPMENT BLANK	10010484-28
			SED1	10010484-29
			SED2	10010484-30

SDG#	Date Collected	Sample Matrix	Sample Identification	
			Client ID	Laboratory ID
12E0631	05/16/2012	Soil/Water	ACMS 1	12E0631-01
			ACMS 2	12E0631-02
			ACMS 3	12E0631-03
			ACMS 4	12E0631-04
			ACMS 5	12E0631-05
			ACMS 6	12E0631-06
			ACMS 7	12E0631-07
			ACMS 8	12E0631-08
			ACMS 9	12E0631-09
			ACMS 10	12E0631-10
			ACMS 11	12E0631-11
			Trip Blank	12E0631-12
			Field Blank	12E0631-13
12G0446	07/11/2012	Water	T7	12G0446-01
			MW28	12G0446-02
			T5	12G0446-03
			MW26	12G0446-04
			MW25	12G0446-05
			Trip Blank	12G0446-06
			Equip Blank	12G0446-07
12G0902	07/25/2012	Soil/Water	ACMS 16S	12G0902-01
			ACMS 15S	12G0902-02
			ACMS 14S	12G0902-03
			ACMS 12S	12G0902-04
			ACMS 13S	12G0902-05
			ACMS 17S	12G0902-06
			ACMS 18S	12G0902-07
			ACMS 16D	12G0902-08
			ACMS 15D	12G0902-09
			ACMS 14D	12G0902-10
			ACMS 12D	12G0902-11
			ACMS 13D	12G0902-12
			ACMS 17D	12G0902-13
			ACMS 18D	12G0902-14
			Trip Blank	12G0902-15
			Equipment Blank	12G0902-16
12J0066	09/24/2012	Soil/Water	XP2-A	12J0066-01
			XP2-B	12J0066-02
			Trip Blank	12J0066-03
			Field Blank	12J0066-04
12J0483	10/11/2012	Soil/Water	ACMS 20	12J0483-01
			ACMS 21	12J0483-02
			Trip Blank	12J0483-03
			Field Blank (Equipment)	12J0483-04
12L0069	11/29/2012	Soil/Water	B3-24"	12L0069-01
			B6-24"	12L0069-02
			B7-24"	12L0069-03
			SWW-12"	12L0069-04
			SWW-24"	12L0069-05
			NWW-10"	12L0069-06
			NWW-25"	12L0069-07
			Trip Blank	12L0069-08
			Field Blank	12L0069-09

## **1.2 Analytical Methods**

The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies (2005 update). Laboratory analyses were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.



### **1.3 Validation Protocols**

Data validation is a process that involves the evaluation of analytical data against prescribed quality control criteria to determine the usefulness of the data. The analytical data addressed in this report were evaluated utilizing the quality control criteria presented in the following documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, EPA-540-R-08-01, June 2008.
- *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.
- *Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP No. HW-24 Revision #2, USEPA Hazardous Waste Support Branch, October 2006.
- *Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP)*, NYSDEC June 2005.

#### **1.3.1 Organic Parameters**

The validation of organic parameters for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

##### **Volatile Organics Analyses**

1. Holding Times
2. GC/MS Instrument Tuning Criteria
3. Calibration
  - a. Initial Calibration
  - b. Continuing Calibration
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike / Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Internal Standards Recovery
9. Compound Identification and Quantification
10. Field Duplicate Analysis
11. System Performance
12. Documentation Completeness
13. Overall Data Assessment

### **1.4 Data Qualifiers**

The following qualifiers as specified in the guidance documents presented in Section 1.3 of this report have been used for this data validation.

- U Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination.
- J Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.
- UJ Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.
- R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

The following sections of this document present a summary of the data validation process. Section 2 discusses data compliance with established QA/QC criteria and qualifications performed on the sample data. A discussion of the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) of the data and data usability are discussed in Section 3. The USEPA Region II Data Validation Checklist is presented in Appendix A.

## **SECTION 2 - DATA VALIDATION SUMMARY**

This section presents a discussion of QA/QC parameter compliance with established criteria and the qualification of data performed when QA/QC parameter deviations were identified. When several deviations from established QA/QC criteria were observed, the final qualifier assigned to the data was based on the cumulative effect of the deviations.

### **2.1 Volatile Organics Analysis**

Data validation was performed for thirty-eight soil samples, thirty-one groundwater samples, three equipment blank samples, four field blank samples, and seven trip blank samples. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

#### **Blank Analysis**

The method blanks contained detectable concentrations of several target compounds. Blank action levels were calculated at ten times the blank concentrations for the common laboratory contaminants and five times for other target compounds. Detected sample results, which were less than the blank action levels were qualified with a "U" in the associated samples. Results that were detected below the contract required detection limit (CRDL) were raised to the CRDL and qualified with a "U" qualifier. The "U" qualifier indicates that the volatile organic was analyzed for but was not detected above the CRDL.

**Table 2: Volatile Organics Analyses - Blank Analysis Deviations**

<b>Blank Matrix</b>	<b>Date Analyzed</b>	<b>Compound</b>	<b>Blank Action Level</b>	<b>Associated Samples</b>	<b>Qualified Sample Result</b>
Water	01/20/2010 (20:41)	Methylene Chloride	60 µg/L	T7 T4 MW24 MW31 MW22 T8 MW26 MW25	5 U µg/L 6 U µg/L 5 U µg/L 5 U µg/L 5 U µg/L 5 U µg/L 5 U µg/L 5 U µg/L
Water	01/20/2010 (20:41)	Naphthalene	30 µg/L	T4 MW25	5 U µg/L 5 U µg/L
Water	01/20/2010 (21:04)	Methylene Chloride	50 µg/L	T6 MW28 T3 MW24 Duplicate T1 T9 MW21	5 U µg/L 5 U µg/L 5 U µg/L 5 U µg/L 5 U µg/L 5 U µg/L 5 U µg/L
Water	01/21/2010 (08:57)	Methylene Chloride	50 µg/L	MW4 MW1B SW1 SW2 TRIP BLANK EQUIPMENT BLANK SED1 SED2	5 U µg/L 5 U µg/L 5 U µg/L 5 U µg/L 5 U µg/L 5 U µg/L 13 U µg/Kg 14 U µg/Kg
Water	01/21/2010 (08:57)	Naphthalene	10 µg/L	MW1B	5 U µg/L

Blank Matrix	Date Analyzed	Compound	Blank Action Level	Associated Samples	Qualified Sample Result
Water	01/21/2010 (21:44)	Methylene Chloride	40 µg/L	MW3 MW7 MW6 MW5	25 U µg/L 5 U µg/L 25 U µg/L 10 U µg/L
Water	01/22/2010 (08:51)	Methylene Chloride	40 µg/L	MW30 T5 MW2	5 U µg/L 5 U µg/L 5 U µg/L
Water	01/22/2010 (08:51)	Naphthalene	10 µg/L	T5	5 U µg/L
Soil	05/22/2012	Acetone	73 µg/Kg	ACMS 1 ACMS 7 ACMS 8 ACMS 9 ACMS 10 ACMS 11	66 U µg/Kg 52 U µg/Kg 97 U µg/Kg 45 U µg/Kg 56 U µg/Kg 45 U µg/Kg
Soil	05/22/2012	Methylene Chloride	82 µg/Kg	ACMS 1 ACMS 2 ACMS 3 ACMS 4 ACMS 5 ACMS 6 ACMS 7 ACMS 8 ACMS 9 ACMS 10 ACMS 11	44 U µg/Kg 50 U µg/Kg 43 U µg/Kg 43 U µg/Kg 42 U µg/Kg 45 U µg/Kg 49 U µg/Kg 100 U µg/Kg 39 U µg/Kg 26 U µg/Kg 42 U µg/Kg
Water	05/22/2012	Acetone	78 µg/L	Trip Blank (12E0631-12) Field Blank (12E0631-13)	12 U µg/L 15 U µg/L
Water	05/22/2012	Methylene Chloride	77 µg/L	Trip Blank (12E0631-12) Field Blank (12E0631-13)	11 U µg/L 10 U µg/L
Soil	08/01/2012	Methylene Chloride	15 µg/Kg	ACMS 16S ACMS 15S ACMS 14S ACMS 17S ACMS 18S ACMS 16D ACMS 15D ACMS 14D ACMS 12D ACMS 13D ACMS 17D ACMS 18D	14 U µg/Kg 11 U µg/Kg 11 U µg/Kg 11 U µg/Kg 11 U µg/Kg 11 U µg/Kg 13 U µg/Kg 14 U µg/Kg 11 U µg/Kg 11 U µg/Kg 11 U µg/Kg 11 U µg/Kg
Soil	08/03/2012	Methylene Chloride	14 µg/Kg	ACMS 12S	11 U µg/Kg
Soil	10/04/2012	Methylene Chloride	55 µg/Kg	XP2-A XP2-B	63,000 U µg/Kg 12 U µg/Kg
Water	10/04/2012	Methylene Chloride	13 µg/L	Field Blank (12J0066-04)	10 U µg/L

### **Initial Calibration**

The initial calibration relative standard deviation (%RSD) limit, which requires the %RSD to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %RSD criteria were exceeded. Samples requiring qualification due to these deviations are tabulated below.

**Table 3: Volatile Organics Analyses - Initial Calibration Deviations**

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
01/08/2010	Bromomethane	34.72 %	UJ	T7 T6 T5 MW28 T4 T3 MW24 MW24 Duplicate MW31 T1 MW22 T9 T8 MW21 MW26 MW25 MW3 MW7 MW6 MW5 MW2 MW30 MW4 MW1B SW1 SW2 TRIP BLANK EQUIPMENT BLANK SED1 SED2
05/07/2012	1,4-Dioxane	67.12 %	R	ACMS 1 ACMS 2 ACMS 3 ACMS 4 ACMS 5 ACMS 6 ACMS 7 ACMS 8 ACMS 9 ACMS 10 ACMS 11 Trip Blank (12E0631-12) Field Blank (12E0631-13)
07/18/2012	1,4-Dioxane	36.76 %	R	T7 MW28 T5 MW26 MW25 Trip Blank (12G0446-06) Equip Blank (12G0446-07)
09/27/2012	1,4-Dioxane	51.59 %	UJ	XP2-A XP2-B Trip Blank (12J0066-03) Field Blank (12J0066-04)

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
11/27/2012	1,4-Dioxane 1,2-Dibromo-3-Chloropropane Naphthalene	82.17 % 39.18 % 40.72 %	UJ UJ UJ	B3-24" B6-24" B7-24" SWW-12" SWW-24" NWW-10" NWW-25" Trip Blank (12L0069-08) Field Blank (12L0069-09)

### Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 25 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Non-detected sample results were rejected (R) when %D values exceeded 90 percent. Samples requiring qualification due to these deviations are tabulated below.

**Table 4: Volatile Organics Analyses - Continuing Calibration Deviations**

Date Analyzed	Compound	%D	Qualifier	Affected Samples
01/21/2010 (18:45)	Dichlorodifluoromethane	33.1 %	UJ	MW3 MW7 MW6 MW5
05/22/2012 (21:50)	1,4-Dioxane	100.0 %	R	ACMS 1 ACMS 2 ACMS 3 ACMS 4 ACMS 5 ACMS 6 ACMS 7 ACMS 8 ACMS 9 ACMS 10 ACMS 11
05/22/2012 (23:54)	1,4-Dioxane	100.0 %	R	Trip Blank (12E0631-12) Field Blank (12E0631-13)
07/17/2012 (22:45)	1,4-Dioxane	66.7 %	R	T7 MW28 T5 MW26 MW25 Equip Blank (12G0446-07)
07/18/2012 (22:34)	Dichlorodifluoromethane	26.1 %	UJ	Trip Blank (12G0446-06)
10/03/2012 (23:35)	Acetone 1,4-Dioxane Naphthalene	43.1 % 100 % 37.3 %	J, UJ R UJ	Trip Blank (12J0066-03) Field Blank (12J0066-04)
10/04/2012	Dichlorodifluoromethane	45.9 %	UJ	XP2-A XP2-B
10/15/2012 (22:58)	Acetone	39.1 %	UJ	Trip Blank (12J0483-03) Field Blank (Equipment)
10/16/2012 (11:04)	1,4-Dioxane	33.3 %	UJ	ACMS 20 (Dilution) ACMS 21 (Dilution)

Date Analyzed	Compound	%D	Qualifier	Affected Samples
12/05/2012 (11:39)	Vinyl Acetate 1,4-Dioxane	32.8 % 200 %	UJ R	Trip Blank (12L0069-08) Field Blank (12L0069-09)
12/05/2012 (23:06)	Acetone Vinyl Acetate Carbon Tetrachloride 1,4-Dioxane 1,2-Dibromo-3-Chloropropane	30.9 % 34.7 % 26.1 % 100 % 27.5 %	J, UJ UJ UJ R UJ	B3-24" B6-24" B7-24" SWW-12" SWW-24" NWW-10" NWW-25"

### **Laboratory Control Samples**

The laboratory control sample criteria require percent recovery values to be between within laboratory prescribed control limits for target compounds. Volatile compounds that exceeded laboratory control sample criteria and the samples qualified due to those deviations are tabulated below.

**Table 5: Volatile Organics Analyses - Laboratory Control Sample Deviations**

Compound	%Recovery LCS/LCSD	Control Limit	Qualifier	Affected Samples
Dichlorodifluoromethane	69.4 %	70 % to 130 %	UJ	T6 MW28 T3 MW24 Duplicate T1 T9 MW21
Bromomethane	66.9 %	70 % to 130 %	UJ	MW4 MW1B SW1 SW2 TRIP BLANK EQUIPMENT BLANK SED1 SED2
Dichlorodifluoromethane Bromomethane 2-Chlorotoluene	64.8 % 63.1 % 68.7 %	70 % to 130 % 70 % to 130 % 70 % to 130 %	UJ UJ UJ	MW30 T5 MW2
1,4-Dioxane	0.567 %/0.127 %	70 % to 130 %	R	ACMS 1 ACMS 2 ACMS 3 ACMS 4 ACMS 5 ACMS 6 ACMS 7 ACMS 8 ACMS 9 ACMS 10 ACMS 11
Vinyl Acetate	66.8 %/66.9 %	70 % to 130 %	UJ	Trip Blank (12E0631-12) Field Blank (12E0631-13)
1,4-Dioxane Vinyl Acetate	3.29 %/2.77 % 69.0 %/66.1 %	70 % to 130 % 70 % to 130 %	R UJ	T7 Equip Blank (12G0446-07)

Compound	%Recovery LCS/LCSD	Control Limit	Qualifier	Affected Samples
1,4-Dioxane Vinyl Acetate	2.40 %/4.57 % 60.9 %/66.7 %	70 % to 130 % 70 % to 130 %	R UJ	MW28 T5 MW26 MW25 Trip Blank (12G0446-06)
Vinyl Acetate	54.3 %/51.7 %	70 % to 130 %	UJ	ACMS 16S ACMS 15S ACMS 14S ACMS 17S ACMS 18S ACMS 16D ACMS 15D ACMS 14D ACMS 12D ACMS 13D ACMS 17D ACMS 18D
Acetone Vinyl Acetate	67.5 %/67.6 % 48.1 %/47.7 %	70 % to 130 % 70 % to 130 %	J, UJ UJ	ACMS 12S ACMS 13S
Vinyl Acetate	51.4 %/49.8 %	70 % to 130 %	UJ	Trip Blank (12G0902-15) Equipment Blank (12G0902-16)
Acetone Vinyl Acetate Methylene Chloride	68.7 %/66.6 % 49.9 %/48.3 % 140 %/145 %	70 % to 130 % 58.4 % to 120 % 70 % to 130 %	UJ UJ UJ	XP2-A XP2-B
Acetone Vinyl Acetate	53.1 %/53.6 % 45.3 %/48.6 %	70 % to 130 % 70 % to 130 %	UJ UJ	Trip Blank (12J0066-03) Field Blank (12J0066-04)
Acetone Vinyl Acetate	77.8 %/69.2 % 38.9 %/40.0 %	70 % to 130 % 70 % to 130 %	UJ UJ	Trip Blank (12L0069-08) Field Blank (12L0069-09)
1,4-Dioxane Vinyl Acetate Acetone	147 %/0 % 40.1 %/39.2 % 75.0 %/59.6 %	70 % to 130 % 70 % to 130 % 70 % to 130 %	R UJ UJ	Trip Blank (12J0483-03) Field Blank (Equipment)
Acetone Vinyl Acetate 1,4-Dioxane	60.1 %/57.5 % 41.0 %/38.9 % 85.8 %/0 %	70 % to 130 % 70 % to 130 % 70 % to 130 %	UJ UJ R	ACMS 20 ACMS 21

### **Matrix Spike Recovery**

Matrix spike/matrix spike duplicate (MS/MSD) recovery criteria requiring compound recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries less than 10 percent. Samples qualified due to MS/MSD recovery deviations are tabulated below.



**Table 6: Volatile Organics Analyses - MS/MSD Analysis Deviations**

MS/MSD Sample ID	Compound	Percent Recovery (MS/MSD)	Control Limits	Qualifier	Affected Samples
ACMS 8	1,1,1,2-Tetrachloroethane	72.9 %/82.9 %	73 % to 125 %	UJ	ACMS 1
	1,2,3-Trichlorobenzene	29.5 %/33.8 %	67.9 % to 119 %	UJ	ACMS 2
	1,2,4-Trichlorobenzene	34.3 %/39.6 %	72.1 % to 114 %	UJ	ACMS 3
	1,2,4-Trimethylbenzene	55.7 %/62.7 %	61.9 % to 109 %	J, UJ	ACMS 4
	1,4-Dioxane	0.370 %/0.489 %	70 % to 130 %	R	ACMS 5
	Acetone	0 %/0 %	70 % to 130 %	J, UJ	ACMS 6
	Methylene Chloride	0 %/0 %	39.2 % to 109 %	J, UJ	ACMS 7
	Tetrachloroethylene	0 %/0 %	38.5 % to 161 %	J, R	ACMS 8
	Vinyl Acetate	11.7 %/13.4 %	70 % to 130 %	UJ	ACMS 9
					ACMS 10
					ACMS 11
MW26	1,4-Dioxane	4.33 %/3.91 %	70 % to 130 %	R	T7
	Tetrachloroethylene	67.8 %/75.7 %	72.5 % to 130 %	J, UJ	MW28
	Vinyl Acetate	61.7 %/66.6 %	70 % to 130 %	UJ	T5
					MW26
					MW25
					Trip Blank (12G0446-06)
					Equip Blank (12G0446-07)
ACMS 16D	1,2,3-Trichlorobenzene	37.1 %/40.1 %	67.9 % to 119 %	UJ	ACMS 16S
	1,2,4-Trichlorobenzene	36.3 %/40.5 %	72.1 % to 114 %	UJ	ACMS 15S
	Acetone	64.5 %/63.0 %	70 % to 130 %	J, UJ	ACMS 14S
	Tetrachloroethylene	180 %/292 %	38.5 % to 161 %	J, UJ	ACMS 12S
	Vinyl Acetate	21.8 %/15.3 %	70 % to 130 %	UJ	ACMS 13S
					ACMS 17S
					ACMS 18S
					ACMS 16D
					ACMS 15D
					ACMS 14D
					ACMS 12D
					ACMS 13D
					ACMS 17D
					ACMS 18D
B2-24"	1,4-Dioxane	1.98 %/143 %	10 % to 249 %	R	B3-24"
	Tetrachloroethylene	900 %/736 %	26 % to 179 %	J	B6-24"
	Vinyl Acetate	0 %/2.02 %	10 % to 62 %	R	B7-24"
					SWW-12"
					SWW-24"
					NWW-10"
					NWW-25"

### **Internal Standards Recovery**

The internal standard areas exceeded recovery limits for several samples. Qualification of sample results included the approximation of results when recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 25 percent. Samples qualified due to internal standard recovery deviations are tabulated below.

**Table 7: Volatile Organics Analyses - Internal Standard Deviations**

Internal Standard	Sample ID	Percent Recovery	Affected Compounds	Qualifier
1,2-Dichlorobenzene-d4	ACMS-21	49.4 %	Bromoform	UJ
			1,1,2,2-Tetrachloroethane	UJ
			1,2,3-Trichloropropane	UJ
			Isopropylbenzene	UJ
			1,2-Dibromo-3-Chloropropane	UJ
			Bromobenzene	UJ
			n-Propylbenzene	UJ
			2-Chlorotoluene	UJ
			4-Chlorotoluene	UJ
			Tert-Butylbenzene	UJ
			1,3,5-Trimethylbenzene	UJ
			1,2,4-Trimethylbenzene	UJ
			Sec-Butylbenzene	UJ
			1,3-Dichlorobenzene	UJ
			1,4-Dichlorobenzene	UJ
			1,2-Dichlorobenzene	UJ
			p-Isopropyltoluene	UJ
			n-Butylbenzene	UJ
			1,2,4-Trichlorobenzene	UJ
			Naphthalene	UJ
			1,2,3-Trichlorobenzene	UJ

**Overall Data Assessment**

Overall, the laboratory performed volatile organic analyses in accordance with the requirements specified in the methods listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with the exception of non-detected Vinyl Acetate results for seven samples, 1,4-Dioxane results for thirty-one samples, and Tetrachloroethylene results for six samples that were rejected due to continuing calibration, laboratory control sample analysis, and matrix spike recovery deviations. Sample qualification was also required for several compound results based on deviations from blank analysis, initial calibration, continuing calibration, laboratory control sample recovery, matrix spike recovery, and internal standard recovery deviations.

## **SECTION 3 - DATA USABILITY and PARCC EVALUATION**

### **3.1 Data Usability**

This section presents a summary of the usability of the analytical data and an evaluation of the PARCC parameters. Data usability was calculated as the percentage of data that was not qualified as rejected based on a significant deviation from established QA/QC criteria. Data usability which was calculated separately for each type of analysis is tabulated below.

**Table 8: Data Usability and PARCC Evaluation - Data Usability**

<b>Parameter</b>	<b>Usability</b>	<b>Deviations</b>
Volatile Organics	99.17 %	Non-detected Vinyl Acetate results for seven samples, 1,4-Dioxane results for thirty-one samples, and Tetrachloroethylene results for six samples were rejected due to continuing calibration, laboratory control sample analysis, and matrix spike recovery deviations.

### **3.2 PARCC Evaluation**

The following sections provide an evaluation of the analytical data with respect to the precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters.

#### **3.2.1 Precision**

Precision is measured through field duplicate samples, split samples, and laboratory duplicate samples. For this sampling program, none of the data were qualified for laboratory duplicate criteria deviations and none of the data were qualified for field duplicate criteria deviations.

#### **3.2.2 Accuracy**

Matrix spike sample, surrogate recovery, internal standard recovery, laboratory control samples, and calibration criteria indicate the accuracy of the data. For this sampling program, 3.98 percent of the analytical data were qualified for deviations from matrix spike recovery criteria; none of the data were qualified for surrogate recovery criteria deviations; 0.40 percent of the data were qualified for internal standard recovery criteria deviations; 1.79 percent of the data were qualified for laboratory control sample deviations; and 2.60 percent of the data were qualified for calibration criteria deviations.

#### **3.2.3 Representativeness**

Holding times, sample preservation, and blank analysis are indicators of the representativeness of the analytical data. For this investigation, none of the analytical data required qualification for holding time deviations and 1.34 percent of the analytical data required qualification for blank analysis deviations.

#### **3.2.4 Comparability**

Comparability is not compromised provided that the analytical methods did not change over time. A major component of comparability is the use of standard reference materials for calibration and QC. These standards are compared to other unknowns to verify their concentrations. Since standard analytical methods and reporting procedures were consistently used by the laboratory, the comparability criteria for the analytical data were met.

#### **3.2.5 Completeness**

The percent usability or completeness of the data was determined to be 99.17 percent.

## **APPENDIX A**

### **DATA VALIDATION CHECKLISTS**

## **Table of Contents**

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## Data Validation Checklist - Part A: SW-846 Method 8260B VOA Analyses

No:	Parameter	YES	NO	N/A
<b>1.0</b>	<b><u>Traffic Reports and Laboratory Narrative</u></b>			
1.1	Are the traffic Report Forms present for all samples?	X		
1.2	Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		X	
<b>2.0</b>	<b><u>Holding Times</u></b>			
2.1	Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded?		X	
<b>3.0</b>	<b><u>System Monitoring Compound (SMC) Recovery (Form II)</u></b>			
3.1	Are the VOA SMC Recovery Summaries (FORM II) present for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
3.2	Are all the VOA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
3.3	Were outliers marked correctly with an asterisk?			X
3.4	Was one or more VOA system monitoring compound recovery outside of contract specifications for any sample or method blank?		X	
	If yes, were samples re-analyzed?			X
	Were method blanks re-analyzed?			X
3.5	Are there any transcription/calculation errors between raw data and Form II?		X	
<b>4.0</b>	<b><u>Matrix Spikes (Form III)</u></b>			
4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?		X	
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices?			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
4.3	How many VOA spike recoveries are outside QC limits?			
	Water <u>  3  </u> out of 66      Soils <u>  17  </u> out of 66			
4.4	How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits?			
	Water <u>  0  </u> out of 66      Soils <u>  0  </u> out of 66			

## Data Validation Checklist - Part A: SW-846 Method 8260B VOA Analyses

No:	Parameter	YES	NO	N/A
<b>5.0</b>	<b><u>Blanks (Form IV)</u></b>			
5.1	Is the Method Blank Summary (Form IV) present?	X		
5.2	Frequency of Analysis: for the analysis of VOA TCL compounds, has a reagent/method blank been analyzed for each SDG or every 20 samples of similar matrix (low water, low soil, medium soil), whichever is more frequent?	X		
5.3	Has a VOA method/instrument blank been analyzed at least once every twelve hours for each concentration level and GC/MS system used?	X		
5.4	Is the chromatographic performance (baseline stability) for each instrument acceptable for VOAs?	X		
<b>6.0</b>	<b><u>Contamination</u></b>			
6.1	Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for VOAs?	X		
6.2	Do any field/trip/rinse blanks have positive VOA results (TCL and/or TIC)?	X		
6.3	Are there field/rinse/equipment blanks associated with every sample?	X		
<b>7.0</b>	<b><u>GC/MS Instrument Performance Check (Form V)</u></b>			
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Bromofluorobenzene (BFB)?	X		
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift?	X		
7.3	Has an instrument performance compound been analyzed for every twelve hours of sample analysis per instrument?	X		
7.4	Have the ion abundances been normalized to m/z 95?	X		
7.5	Have the ion abundance criteria been met for each instrument used?	X		
7.6	Are there any transcription/calculation errors between mass lists and Form V's?		X	
7.7	Have the appropriate number of significant figures (two) been reported?	X		
7.8	Are the spectra of the mass calibration compound acceptable?	X		
<b>8.0</b>	<b><u>Target Compound List (TCL) Analytes</u></b>			
8.1	Are the Organic Analysis Data Sheets (Form I VOA) present with required header information on each page, for each of the following:			
	a. Sample and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates?	X		
	c. Blanks?	X		
8.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			
	a. Samples and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates (Mass spectra not required)?	X		
	c. Blanks?	X		
8.3	Are the response factors shown in the Quant Report?	X		



## Data Validation Checklist - Part A: SW-846 Method 8260B VOA Analyses

No:	Parameter	YES	NO	N/A
8.4	Is the chromatographic performance acceptable with respect to:			
	Baseline stability?	X		
	Resolution?	X		
	Peak shape?	X		
	Full-scale graph (attenuation)?	X		
	Other:			X
8.5	Are the lab-generated standard mass spectra of the identified VOA compounds present for each sample?	X		
8.6	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
8.7	Are all ions in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	X		
8.8	Do sample and standard relative ion intensities agree within 20%?	X		
<b>9.0</b>	<b><u>Tentatively Identified Compounds (TIC)</u></b>			
9.1	Are all Tentatively Identified Compound Forms (Form I Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?		X	
9.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?			X
	b. Blanks?			X
9.3	Are any TCL compounds (from any fraction) listed as TIC compounds?		X	
9.4	Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
9.5	Do TIC and "best match" standard relative ion intensities agree within 20%?			X
<b>10.0</b>	<b><u>Compound Quantitation and Reported Detection Limits</u></b>			
10.1	Are there any transcription/calculation errors in Form I results?		X	
10.2	Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
<b>11.0</b>	<b><u>Standards Data (GC/MS)</u></b>			
11.1	Are the Reconstructed Ion Chromatograms, and data system printouts present for initial and continuing calibration?	X		
<b>12.0</b>	<b><u>GC/MS Initial Calibration (Form VI)</u></b>			
12.1	Are the Initial Calibration Forms (Form VI) present and complete for the volatile fraction at concentrations of 10, 20, 50, 100, 200 ug/L? Are there separate calibrations for low/med soils and low soil samples?	X		
12.2	Were all low level soil standards, blanks, and samples analyzed by heated purge?	X		
12.3	Are the response factors stable for VOA's over the concentration range of the calibration (%Relative Standard Deviation (%RSD) <30%)		X	
12.4	Are the RRFs above 0.01?	X		
12.5	Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %RSD?		X	

## Data Validation Checklist - Part A: SW-846 Method 8260B VOA Analyses

No:	Parameter	YES	NO	N/A
<b>13.0</b>	<b><u>GC/MS Continuing Calibration (Form VII)</u></b>			
13.1	Are the Continuing Calibration Forms (Form VII) present and complete for the volatile fraction?	X		
13.2	Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?	X		
13.3	Do any volatile compounds have a %Difference (%D) between the initial and continuing RRF which exceeds the +/- 25% criteria?	X		
13.4	Do any volatile compounds have a RRF <0.01?		X	
13.5	Are there any transcription/calculation errors in the reporting of average response factor (RRF) or %difference (%D) between initial and continuing RRFs?		X	
<b>14.0</b>	<b><u>Internal Standard (Form VIII)</u></b>			
14.1	Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration?		X	
14.2	Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
<b>15.0</b>	<b><u>Field Duplicates</u></b>			
15.1	Were any field duplicates submitted for VOA analysis?	X		

**Appendix C-2**  
**Data Usability Summary Reports**  
**For VES & Groundwater Sampling 2017**  
**Prepared by Nancy J. Potak**  
**Identified by 4 Reports Prepared by**  
**York Analytical Laboratories:**  
**17D0577, 17D0518, 17F0052, 17F0808**  
**for**  
**American Cleaners Middletown**  
**Orange County, New York**

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**Remedial Investigation/  
Alternative Analysis Report:  
Operable Unit #2 Groundwater  
NYSDEC Site Number: V-00461-3**

**Prepared for:**  
AMERICAN CLEANERS, Inc.

360 Route 211 East

Middletown, NY 10940

**Prepared by:**  
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72 Coburn Drive  
Poughkeepsie, NY 12603  
(845) 505-0324

and

Mid-Hudson Geosciences  
1003 Route 44/55, PO Box 32  
Clintondale, NY 12615-0032  
(845) 883-5726

**JANUARY 2018**

Table 1B  
List of Samples for Data Validation  
American Cleaners, Middletown, NY  
Year: 2017  
All Lab Reports are from York Analytical Laboratories

Date of Sampling	Report ID	Report Date	Type of Sampling	No Samples	No Blanks	No MS/D	Method	ASP_B
4/13/17	17D0581	4/25/2017	ACM GW part 1	3 wells, 1 dup	TB, EB	0	8260C	yes
6/6/17	17F0052	6/12/2017	ACM GW part 2	3 wells, 1 dup	TB, EB	0	8260C	yes
4/12/17	17D0577	4/21/17	Sub Slab Vapor Ex	1 point	0	0	TO-15	yes
6/20/17	17F0808	6/28/17	Sub Slab VES	4 points	0	9	TO-15	yes

**SUMMARY OF THE ANALYTICAL DATA USABILITY**  
**Review of NY ASP/CLP B Package**  
**York Analytical Laboratories Report No. 17D0577 4/21/2017**  
**American Cleaners, Middletown, NY**  
**Sub-Slab Vapor Extraction System (XP2) Sample**

**Air Volatile Organic Analyses – Soil Vapor**  
**US EPA Method TO-15**  
**Sample Collected: April 12, 2017**  
**Sample Received: April 14, 2017**  
**Sample Delivery Group: 17D0577**  
**Laboratory – York Analytical Laboratories, Inc.**  
**Laboratory Reference Numbers:**

<b>Lab ID</b>	<b>Field Sample ID</b>
17D0577-01	Canister ID 16695 Flow Controller F8
17D0577-01 RE	Canister ID 16695 Flow Controller F8 RE
17D0577-01 DUP	Canister ID 16695 Flow Controller F8 DUP

One air sample was validated for analyses of volatile organics by the US EPA Region II checklist. Data were reviewed for usability according to the following criteria:

- \* - Data Completeness
- \* - GC/MS Tuning
- \* - Holding Times
  - Calibrations
- \* - Laboratory Blanks
  - Field Duplicates
- \* - Laboratory Duplicates
- \* - Surrogate Compound Recoveries
  - Internal Standard Recoveries
  - Matrix Spike / Matrix Spike Duplicate
  - Laboratory Control Sample
- \* - Compound Identification
- \* - Compound Quantitation

\* - Indicates that all criteria were met for this parameter.

**DATA VALIDATION SUMMARY**

Sample 17D0577-01 / Canister ID 16695 Flow Controller F8 was reanalyzed at a 772X dilution due to a high concentration of tetrachloroethylene (93,000 ug/m3).

The problems with the laboratory control sample, calibrations and internal standard should be noted. These are described in detail below.

## Holding Times

All samples were analyzed within 30 days of collection.

## Tunes

No problems were detected with the GC/MS tune summaries.

## Surrogate Compound Recoveries

All surrogate recoveries were within the 60% - 140% quality control limits used for the validation.

4-Bromofluorobenzene (BFB) was the only surrogate.

## Initial Calibrations

Two initial calibrations were analyzed with this sample delivery group:

All of the %RSDs in the 2/23/17 initial calibration associated with the analyses of all of the samples were less than or equal to 30%.

This initial calibration was associated with the analyses of the following sample:

17D0577-01 RE Canister ID 16695 Flow Controller F8 RE.

All of the %RSDs in the 10/26/16 initial calibration were less than or equal to 30%.

This initial calibration was associated with the analyses of the following samples:

17D0577-01 Canister ID 16695 Flow Controller F8  
17D0577-01 DUP Canister ID 16695 Flow Controller F8 DUP

## Continuing Calibrations

All of the percent differences in the 4/17/1716 continuing calibration were less than 30% with the exceptions of chloromethane (31%) and isopropanol (36%).

This continuing calibration was associated with the analyses of the following samples:

17D0577-01 Canister ID 16695 Flow Controller F8  
17D0577-01 DUP Canister ID 16695 Flow Controller F8 DUP

The data for these compounds were flagged with the "J" qualifier and are estimated values.

All of the percent differences in the 4/20/17 continuing calibration were less than 30%.

This continuing calibration was associated with the analyses of the following sample:

17D0577-01 RE Canister ID 16695 Flow Controller F8 RE

All of the relative response factors (RRF) were greater than 0.05.

#### Matrix Spike

A matrix spike was not analyzed.

#### Laboratory Duplicate

All of the percent differences between the sample and laboratory duplicate were less than the 30% quality control limit used for the purpose of the validation.

#### Field Duplicate

A field duplicate was not collected.

#### Laboratory Control Sample

All LCS recoveries were within the 70% - 130% quality control limits in LCS BD70783-BS1 with the following exceptions:

Compound	% Rec.
Acetone	68%
Isopropanol	65%

This laboratory control sample was associated with the analyses of the following samples:

17D0577-01 Canister ID 16695 Flow Controller F8  
17D0577-01 DUP Canister ID 16695 Flow Controller F8 DUP

The data for these compounds were flagged with the "J" qualifier and are estimated values. It is possible that low concentrations were overlooked.

All LCS recoveries were within the 70% - 130% quality control limits in LCS Bd70982-BS1.

This laboratory control sample was associated with the analyses of the following samples:

17D0577-01 RE Canister ID 16695 Flow Controller F8 RE

#### Method Blanks

No compounds were detected in either of the two method blanks.

### **Internal Standards**

All internal standards were within the 60% -140% quality control limits with the exception of d5-chlorobenzene (56%) in sample 17D0577-01 / Canister ID 16695 Flow Controller F8.

The compounds that were quantitated against this internal standard were flagged with the "J" qualifier and are estimated values.

### **Sample Results**

Sample 17D0577-01 / Canister ID 16695 Flow Controller F8 was reanalyzed at a 772X dilution due to a high concentration of tetrachloroethylene (93,000 ug/m3).

No other problems were found with the sample data.



**DATA USABILITY SUMMARY REPORT**  
**Review of NY ASP/CLP B Package**  
**York Analytical Laboratories Report No. 17D0581 dated 4/25/17**  
**American Cleaners, Middletown, NY**  
**Ground Water Monitoring Wells, Part 1**

**Water Volatile Organic Analyses by US EPA Method SW846 8260C**

**Samples Collected: April 13, 2017**

**Samples Received: April 14, 2017**

**Sample Delivery Group: 17D0581**

**Laboratory – York Analytical Laboratories**

**Laboratory Reference Numbers:**

**York Sample ID**

17D0581-01

17D0581-02

17D0581-03

17D0581-04

17D0581-05

17D0581-06

**Client Sample ID**

MW25

MW25 Duplicate

MW26

T5

Trip Blank

Equip Blank

Water samples were validated for analyses of volatile organics by the US EPA Region II data validation SOP (HW-24, Revision 2, 2008). Data were reviewed for usability according to the following criteria:

- \* - Data Completeness
- \* - GC/MS Tuning
- \* - Holding Times
  - Calibrations
- \* - Laboratory Blanks
- \* - Trip Blank
  - Field Blank
- \* - Equipment Blank
- \* - Field Duplicate
- \* - Surrogate Compound Recoveries
- \* - Internal Standard Recoveries
  - Matrix Spike
- Laboratory Control Samples
- \* - Compound Identification
- \* - Compound Quantitation

\* - Indicates that all criteria were met for this parameter.

**DATA VALIDATION SUMMARY**

The problems with the laboratory control samples and calibrations should be noted. These are discussed in detail below.

## Holding Times

All of the samples were analyzed within 14 days of collection.

## Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

## Surrogate Compound Recoveries

All surrogate compound recoveries were within the quality assurance limits.

## Initial Calibration

All of the %RSDs in the one initial calibration on were less than 20% with the following exceptions:

Compound	%RSD
Acetone	37%
Bromomethane	25%

Neither of these compounds were detected in any of the samples. The data were not required to be qualified for high %RSDs in undetected data.

## Continuing Calibration

Two continuing calibrations were analyzed with this sample delivery group.

All of the %Ds in the 4/22 continuing calibration were less than 20% with the following exceptions.

Compound	%D
1,1,2-Trichloro-1,2,2-Trifluoroethane	27%
1,3,5-Trimethylbenzene (Mesitylene)	23%
2,2-Dichloropropane	34%
2-Chlorotoluene	27%
cis-1,2-Dichloroethylene	21%
Dichlorodifluoromethane	21%
Methyl Ethyl Ketone (2-Butanone)	51%
n-Butylbenzene	24%
t-Butylbenzene	36%
Tetrachloroethylene (PCE)	81%
Vinyl Acetate	26%

This continuing calibration was associated with the analyses of the following samples:

17D0581-03	MW26
17D0581-05	Trip Blank
17D0581-06	Equip Blank

The data for these compounds were flagged with the "J" qualifier and are estimated values.

All of the relative response factors (rrfs) were greater than 0.05.

All of the %Ds in the 4/24 continuing calibration were less than 20% with the following exceptions.

Compound	%D
Acetone	43%
Bromochloromethane	23%
1,2-Dichloroethane	24%
Bromobenzene	21%
Vinyl Acetate	22%

This continuing calibration was associated with the analyses of the following samples:

17D0581-01	MW25
17D0581-02	MW25 Duplicate
17D0581-04	T5

The data for these compounds were flagged with the "J" qualifier and are estimated values.

All relative response factors were greater than the 0.05 quality control limit.

### Matrix Spike

A matrix spike was not analyzed.

### Laboratory Control Sample

Two laboratory control samples were analyzed.

All LCS recoveries in the BD71042-BS1 standard were within the 70% - 130% quality control limits used for the purpose of the validation in the with the following exceptions:

Compound	LCS % Rec.	LCSD % Rec.
1,2,3-Trichloropropane	67%	
1,2-Dibromo-3-Chloropropane	67%	
1,3,5-Trimethylbenzene (Mesitylene)	66%	65%
2,2-Dichloropropane	64%	63%
Benzene	136%	134%
cis-1,2-Dichloroethylene	140%	139%
t-Butylbenzene		64%
Tert-Butyl Methyl Ether		136%
Tetrachloroethylene (PCE)	153%	178%

This LCS was associated with the analyses of the following samples:

17D0581-03	MW26
17D0581-05	Trip Blank
17D0581-06	Equip Blank

All LCS recoveries in the BD71096-BS1 standard were within the 70% - 130% quality control limits used for the purpose of the validation in the with the following exceptions:

Compound	LCS % Rec.	LCSD % Rec.	%RSD
1,2-Dibromo-3-Chloropropane	69%	68%	
Acetone		54%	38%
Tetrachloroethylene (PCE)	134%		

This LCS was associated with the analyses of the following samples:

17D0581-01	MW25
17D0581-02	MW25 Duplicate
17D0581-04	T5

Data for compounds with low recoveries were flagged with the "J" qualifier and are estimated values.

Compounds with high recoveries were only qualified when they were detected in a sample since high recoveries do not affect the use of undetected data.

### Field Duplicates

Sample 17D0581-01 / MW25 was used as the field duplicate. Tetrachloroethylene was detected in both samples at a concentration of 570 ug/l in both samples, for an RPD of 0%.

### Method Blank

No compounds were detected in the method blanks.

### Trip Blank

No compounds were detected in the trip blank.

### Field Blank

A field blank was not analyzed.

### Equipment Blank

No compounds were detected in the equipment blank.

### **Internal Standard Areas and Retention Times**

The areas and retention times of all internal standards were within the required quality control limits.

### **Sample Results**

No problems were detected with any of the samples.

**DATA USABILITY SUMMARY REPORT**  
**Review of NY ASP/CLP B Package**  
**York Analytical Laboratories Report No. 17D0581 dated 4/25/17**  
**American Cleaners, Middletown, NY**  
**Ground Water Monitoring Wells, Part 1**

**Water Volatile Organic Analyses by US EPA Method SW846 8260C**

**Samples Collected: April 13, 2017**

**Samples Received: April 14, 2017**

**Sample Delivery Group: 17D0581**

**Laboratory – York Analytical Laboratories**

**Laboratory Reference Numbers:**

<b>York Sample ID</b>	<b>Client Sample ID</b>
17D0581-01	MW25
17D0581-02	MW25 Duplicate
17D0581-03	MW26
17D0581-04	T5
17D0581-05	Trip Blank
17D0581-06	Equip Blank

Water samples were validated for analyses of volatile organics by the US EPA Region II data validation SOP (HW-24, Revision 2, 2008). Data were reviewed for usability according to the following criteria:

- \* - Data Completeness
- \* - GC/MS Tuning
- \* - Holding Times
  - Calibrations
- \* - Laboratory Blanks
  - Trip Blank
  - Field Blank
- \* - Equipment Blank
- \* - Field Duplicate
- \* - Surrogate Compound Recoveries
- \* - Internal Standard Recoveries
  - Matrix Spike
  - Laboratory Control Samples
- \* - Compound Identification
- \* - Compound Quantitation

\* - Indicates that all criteria were met for this parameter.

**DATA VALIDATION SUMMARY**

The problems with the laboratory control samples and calibrations should be noted. These are discussed in detail below.

## Holding Times

All of the samples were analyzed within 14 days of collection.

## Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

## Surrogate Compound Recoveries

All surrogate compound recoveries were within the quality assurance limits.

## Initial Calibration

All of the %RSDs in the one initial calibration on were less than 20% with the following exceptions:

Compound	%RSD
Acetone	37%
Bromomethane	25%

Neither of these compounds were detected in any of the samples. The data were not required to be qualified for high %RSDs in undetected data.

## Continuing Calibration

Two continuing calibrations were analyzed with this sample delivery group.

All of the %Ds in the 4/22 continuing calibration were less than 20% with the following exceptions.

Compound	%D
1,1,2-Trichloro-1,2,2-Trifluoroethane	27%
1,3,5-Trimethylbenzene (Mesitylene)	23%
2,2-Dichloropropane	34%
2-Chlorotoluene	27%
cis-1,2-Dichloroethylene	21%
Dichlorodifluoromethane	21%
Methyl Ethyl Ketone (2-Butanone)	51%
n-Butylbenzene	24%
t-Butylbenzene	36%
Tetrachloroethylene (PCE)	81%
Vinyl Acetate	26%

This continuing calibration was associated with the analyses of the following samples:

17D0581-03	MW26
17D0581-05	Trip Blank
17D0581-06	Equip Blank

The data for these compounds were flagged with the "J" qualifier and are estimated values.

All of the relative response factors (rrfs) were greater than 0.05.

All of the %Ds in the 4/24 continuing calibration were less than 20% with the following exceptions.

Compound	%D
Acetone	43%
Bromochloromethane	23%
1,2-Dichloroethane	24%
Bromobenzene	21%
Vinyl Acetate	22%

This continuing calibration was associated with the analyses of the following samples:

17D0581-01	MW25
17D0581-02	MW25 Duplicate
17D0581-04	T5

The data for these compounds were flagged with the "J" qualifier and are estimated values.

All relative response factors were greater than the 0.05 quality control limit.

### Matrix Spike

A matrix spike was not analyzed.

### Laboratory Control Sample

Two laboratory control samples were analyzed.

All LCS recoveries in the BD71042-BS1 standard were within the 70% - 130% quality control limits used for the purpose of the validation in the with the following exceptions:

Compound	LCS % Rec.	LCSD % Rec.
1,2,3-Trichloropropane	67%	
1,2-Dibromo-3-Chloropropane	67%	
1,3,5-Trimethylbenzene (Mesitylene)	66%	65%
2,2-Dichloropropane	64%	63%
Benzene	136%	134%
cis-1,2-Dichloroethylene	140%	139%
t-Butylbenzene		64%
Tert-Butyl Methyl Ether		136%
Tetrachloroethylene (PCE)	153%	178%



This LCS was associated with the analyses of the following samples:

17D0581-03	MW26
17D0581-05	Trip Blank
17D0581-06	Equip Blank

All LCS recoveries in the BD71096-BS1 standard were within the 70% - 130% quality control limits used for the purpose of the validation in the with the following exceptions:

Compound	LCS % Rec.	LCSD % Rec.	%RSD
1,2-Dibromo-3-Chloropropane	69%	68%	
Acetone		54%	38%
Tetrachloroethylene (PCE)	134%		

This LCS was associated with the analyses of the following samples:

17D0581-01	MW25
17D0581-02	MW25 Duplicate
17D0581-04	T5

Data for compounds with low recoveries were flagged with the "J" qualifier and are estimated values.

Compounds with high recoveries were only qualified when they were detected in a sample since high recoveries do not affect the use of undetected data.

### Field Duplicates

Sample 17D0581-01 / MW25 was used as the field duplicate. Tetrachloroethylene was detected in both samples at a concentration of 570 ug/l in both samples, for an RPD of 0%.

### Method Blank

No compounds were detected in the method blanks.

### Trip Blank

No compounds were detected in the trip blank.

### Field Blank

A field blank was not analyzed.

### Equipment Blank

No compounds were detected in the equipment blank.

### **Internal Standard Areas and Retention Times**

The areas and retention times of all internal standards were within the required quality control limits.

### **Sample Results**

No problems were detected with any of the samples.

**SUMMARY OF THE ANALYTICAL DATA USABILITY**

**Review of NY ASP/CLP B Package**

**York Analytical Laboratories Report No. 17F0808 6/28/2017**

**American Cleaners, Middletown, NY**

**Sub-Slab Vapor Extraction System 4 Extraction Points: XP1, XP2, XP3, XP4**

**Air Volatile Organic Analyses – Soil Vapor**

**US EPA Method: TO-15**

**Sample Collected: June 20, 2017**

**Sample Received: June 21, 2017**

**Sample Delivery Group: 17F0808**

**Laboratory – York Analytical Laboratories, Inc.**

**Laboratory Reference Numbers:**

<b>Lab ID</b>	<b>Field Sample ID</b>
17F0808-01	XP4 (18310/F 25)
17F0808-02	XP3 (17350/F 1)
17F0808-03	XP1 (466/F 21)
17F0808-04	XP2 (15524/F 29)

Air samples were validated for analyses of volatile organics by the US EPA Region II checklist. Data were reviewed for usability according to the following criteria:

- \* - Data Completeness
- \* - GC/MS Tuning
- \* - Holding Times
  - Calibrations
- \* - Laboratory Blanks
  - Field Duplicates
  - Laboratory Duplicates
- \* - Surrogate Compound Recoveries
- \* - Internal Standard Recoveries
  - Matrix Spike / Matrix Spike Duplicate
  - Laboratory Control Sample
- \* - Compound Identification
- \* - Compound Quantitation

\* - Indicates that all criteria were met for this parameter.

**DATA VALIDATION SUMMARY**

The minor problems with the laboratory control sample and calibrations should be noted. These are described in detail below.

**Holding Times**

All samples were analyzed within 30 days of collection.

### **Tunes**

No problems were detected with the GC/MS tune summaries.

### **Surrogate Compound Recoveries**

All surrogate recoveries were within the 60% - 140% quality control limits used for the validation.

4-Bromofluorobenzene (BFB) was the only surrogate.

### **Initial Calibrations**

All of the %RSDs in the 10/26/16 initial calibration were less than or equal to 30%.

This initial calibration was associated with the analyses of all of the samples in this delivery group.

### **Continuing Calibrations**

All of the percent differences in the 6/21/17 continuing calibration were less than 30% with the exception of chloroethane (43%).

This continuing calibration was associated with the analyses of all of the samples in this delivery group.

The data for chloroethane were flagged with the "J" qualifier and are estimated values.

All of the relative response factors (RRF) were greater than 0.05.

### **Matrix Spike**

A matrix spike was not analyzed.

### **Laboratory Duplicate**

A laboratory duplicate was not analyzed.

### **Field Duplicate**

A field duplicate was not collected.

### **Laboratory Control Sample**

All LCS recoveries were within the 70% - 130% quality control limits in LCS BF71200-BS1 with the following exceptions of chloroethane (150%).

This laboratory control sample was associated with the analyses of all of the samples of this delivery group/

Chloroethane was not detected in any of the samples and the high recovery did not affect the use of the data.

#### **Method Blanks**

No compounds were detected in the method blank.

#### **Internal Standards**

All internal standards were within the 60% -140% quality control limits.

#### **Sample Results**

No problems were found with the sample data.

# **APPENDIX E. Spill Report Documents**

**American Cleaners Middletown  
Orange County, New York**

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## **Remedial Investigation/ Alternative Analysis Report:**

**Operable Unit #2 Groundwater  
NYSDEC Site Number: V-00461-3**

### **Prepared for:**

AMERICAN CLEANERS, Inc.

360 Route 211 East

Middletown, NY 10940

### **Prepared by:**

Jansen Engineering, PLLC

72 Coburn Drive

Poughkeepsie, NY 12603

(845) 505-0324

and

Mid-Hudson Geosciences

1003 Route 44/55, PO Box 32

Clintondale, NY 12615-0032

(845) 883-5726

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**JANUARY 2018**

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## APPENDIX E. Spill Report Documents

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1. NYSDEC Spill Report Form Number: 9910125 Date: 11/21/1999
2. NYSDEC Spill Report Form Number: 9914516 Date: 03/23/2000
3. Phase II Environmental Site Assessment Report:
  - American Dry Cleaners
  - Former Caldor Shopping Plaza
  - Route 211
  - Wallkill, New York *[sic]*
  - April 2000
  - Documents removal and replacement of 1000 gallon UST associated with NYSDEC Spill Number 9914516 with laboratory results for analysis of VOCs and SVOCs from the tank grave.